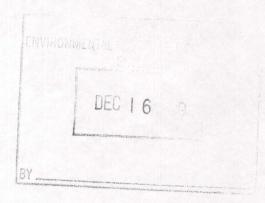
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Draft KUCC and JVWCD Proposal to the Utah State NRD Trustee and USEPA CERCLA Remedial Project Manager for a Groundwater Extraction and Treatment Remedial Project in Southwestern Salt Lake Valley

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# DRAFT

# KENNECOTT UTAH COPPER CORPORATION AND JORDAN VALLEY WATER CONSERVANCY DISTRICT

# PROPOSAL TO THE UTAH STATE NRD TRUSTEE AND USEPA CERCLA REMEDIAL PROJECT MANAGER FOR A GROUNDWATER EXTRACTION AND TREATMENT REMEDIAL PROJECT IN SOUTHWESTERN SALT LAKE VALLEY

December 16, 1999

# 1. INTRODUCTION

Kennecott Utah Copper Corporation (KUCC) and Jordan Valley Water Conservancy District (JVWCD) make this joint proposal to the Utah Trustee for natural resource damage (NRD), Dr. Dianne R. Nielson, who also acts as Director of the Utah Department of Environmental Quality (UDEQ). The proposal is also made to the United States Environmental Protection Agency (USEPA) CERCLA Remedial Project Manager for KUCC site remediation, Dr. Eva J. Hoffman. This proposal also makes a recommendation for allocation of water rights to the Utah State Engineer, Robert L. Morgan, PE.

KUCC and JVWCD propose to develop and construct a groundwater extraction and treatment project with groundwater remedial functions, which will provide treated, municipal quality water to the public in the affected area of the southwestern Jordan Valley. KUCC and JVWCD seek to utilize the trust fund set up under the 1995 NRD Consent Decree, in a manner consistent with the terms of the Consent Decree and to restore the equivalent injured resource.

The concepts of this Proposal have been presented to the governing organizations of West Jordan City, South Jordan City, Riverton City, and the Town of Herriman.

# 1.1 Executive Summary of Proposal

In summary, the Proposal:

- a. Is designed to furnish 9,300 AF/year of municipal quality water to be provided to the public in the Affected Area.
- b. Includes the construction and operation of two reverse osmosis water treatment plants.
- c. Includes construction and operation of pipelines and extraction wells.

- d. Seeks to utilize all portions of the Trust Fund, except that relating to administration and costs. As such, KUCC's portion of the Proposal seeks a reduction in the Irrevocable Letter of Credit (ILC) of half its amount. JVWCD seeks the remaining half of the ILC, together with the balance of the Trust Fund, to supply (restore or replace) the remaining amount of municipal quality water contemplated by the Consent Decree, including replacement of lost concentrate water.
- e. KUCC additional costs and in kind contributions to the Proposal are estimated to be \$164.4 million. JVWCD's additional costs and in kind contributions to the Proposal are estimated to be \$16.4 million.
- f. If the Joint Proposal is approved by September 2000, the proposed schedule anticipates providing municipal quality water to the public in the Affected Area by December 2003.
- g. A proposed allocation of water rights is presented for consideration by the Utah State Engineer. The allocation of water rights is necessary to meet the intent of the NRD Consent Decree. KUCC and JVWCD will submit change applications in Spring 2000 to accomplish the proposed allocations.

# 2. BACKGROUND

# 2.1 Natural Resource Damage Claim and Consent Decree (UDEQ)

The Utah Department of Health filed a complaint in 1986 under the provisions of CERCLA seeking damages from KUCC "for injury to, destruction of, and loss of natural resources." The Utah Department of Health was acting as the CERCLA Trustee in making this claim. The claim pertained to injury to surface and groundwater resulting from the release of hazardous substances from KUCC's and its predecessors milling and mining activities in the southwestern portion of the Salt Lake Valley.

In 1990 the Utah Department of Environmental Quality (UDEQ), the successor Trustee, arrived at a natural resource damage (NRD) settlement with KUCC. An NRD consent decree was proposed to the United States District Court for the District of Utah.

JVWCD (then the Salt Lake County Water Conservancy District) petitioned the court to allow JVWCD to intervene, claiming that the proposed consent decree was insufficient to address damages to the groundwater aquifer. Following a hearing in 1991, the District court allowed JVWCD to intervene, finding JVWCD uniquely situated to contribute to resolving the underlying

factual and legal issues associated with the UDEQ claim. The court did not approve the consent decree proposed in 1991.

An appeal to the 10<sup>th</sup> Circuit Court of Appeals followed, which was dismissed for lack of jurisdiction. The subsequent petition for a writ of certiorari to the United States Supreme Court also was denied.

The three parties (KUCC, UDEQ and JVWCD) entered into negotiations for a settlement. Technical discussions were held regarding potential remedial responses. These discussions resulted in a proposed consent decree dated May 30, 1995. In August 1995, the District court approved and entered the Consent Decree.

The 1995 Consent Decree required KUCC to complete all source control efforts it had been pursuing since 1990. It also created a trust fund that was established for administration by the UDEQ State Trustee, who is appointed as the State CERCLA Trustee for natural resource damage. KUCC has now completed all source control work.

The Trustee utilized the cost of restoration methodology in computing the amount of damage. The value of the settlement was based on the cost of a possible alternative for returning the volume of contaminated water (8,235 acre feet per year) to beneficial use. This method is to extract water through wells and build and operate a treatment plant to produce municipal quality water. It was calculated that a treatment plant using nanofiltration or reverse osmosis technology would have an 85% net output of municipal quality water. This equates to 7,000 acre feet of water as provided for in the Consent Decree, with a loss of 1,235 acre feet of water in the treatment process.

The treatment system concept used for damage calculation requires extraction wells and related facilities, collection pipelines, a treatment plant, a brine discharge pipeline, and a distribution pipeline. The Trustee then calculated the costs of producing 7,000 acre feet of water annually for 50 years, in 1995 dollars, to be \$4,000 per acre foot. The \$4,000 per acre foot cost of treatment includes the capital costs of construction of a treatment plant (40%) and the cost to operate, maintain and replace facilities over an estimated life of 50 years (60%). The present value of funding necessary to undertake such a project was \$28 million.

The trust fund includes \$9 million that was provided to the State Trustee in cash, and "which shall be expended only to restore, replace or acquire the equivalent of the surface or groundwater resources for the benefit of the public in the affected area..."

The trust fund also included an irrevocable letter of credit from KUCC in the amount of \$28 million, escalating annually at 7 percent. The irrevocable letter of credit was the net present value of the funding to undertake the treatment program to produce (treat) municipal quality water from groundwater in the affected area.

The following table shows the increasing value of the \$28 million irrevocable letter of credit and the \$9 million cash payment:

# State NRD Trust Fund

| Date              | KUCC<br>Irrevocable<br>Letter of Credit<br>Value <sup>(a)</sup> (Millions) | \$9 Million Cash<br>Payment Value <sup>(b)</sup><br>(Millions) | Total Value<br>(Millions) |
|-------------------|--|--|---------------------------|
| September<br>1995 | \$28.0   | \$9.0  | \$37.0                    |
| September<br>1996 | \$30.0   | \$9.5  | \$39.5                    |
| September<br>1997 | \$32.1   | \$9.9  | \$42.0                    |
| September<br>1998 | \$34.3   | \$10.4   | \$44.7                    |
| September<br>1999 | \$36.7   | \$10.9   | \$47.5                    |
| September 2000    | \$39.3   | \$11.5   | \$50.8                    |

<sup>(</sup>a) Increases at 7% annually

"Municipal Quality Water" is defined as water originating west of the Welby Canal with total dissolved solids (TDS) concentration of 500 mg/L (and 250 mg/L sulfate), and water originating east of the Welby Canal to 800 mg/L TDS (and 250 mg/L sulfate). Allocation of the right to use surface or groundwater resources "shall be by the Utah State Engineer pursuant to Utah water law."

The NRD Consent Decree acknowledges the separate CERCLA remedial action process by the USEPA. The Consent Decree contemplates the likelihood of formulating a remedial response for the NRD that would

<sup>(</sup>b) Assumed annual increase of 5%, as invested by UDEQ

correlate with the remedial response required by USEPA under federal CERCLA requirements. Because of this, the Consent Decree requires that "the Trustee shall not expend funds secured by the letter of credit until the earlier of two years after the issuance of the ROD or July 1, 2000, unless the Trustee determines that there exists a direct and immediate threat to the public health or the environment that necessitates expenditures to restore, replace or acquire the equivalent of the resource."

Prior to the expenditure of such funds, KUCC can obtain a reduction in the amount of the ILC if KUCC provides and delivers municipal quality water through treatment of contaminated water to a system of a purveyor of municipal and industrial (M&I) water in a manner that is acceptable to the Trustee, and in a manner that meets the specific requirements of the credit provisions.

# 2.2 Federal CERCLA Requirements (USEPA)

Substantial commencement of remedial studies under the federal requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, also known as Superfund) followed the approval of the NRD consent. The main concern of the CERCLA process is the protection of human health and the environment.

In 1995 the USEPA Remedial Project Manager (of Region VIII) formed a Technical Review Committee to oversee the remedial studies. Represented on the Technical Review Committee are UDEQ, USEPA, Utah Department of Natural Resources, Utah State Engineer, Salt Lake City-County Health Department, JVWCD, US Geological Survey, University of Utah, local municipalities, and a local chapter of the Sierra Club.

During 1995-1998, KUCC conducted many studies as part of a remedial investigation/feasibility study (RI/FS). The Technical Review Committee provided oversight during this process. Much information and data was produced and provided by KUCC regarding the affected area, including hydrogeology, groundwater quality, groundwater recharge sources, and future groundwater and contaminant movement in the affected area.

The FS included groundwater modeling by KUCC to project various scenarios of future groundwater and contaminant movement. This modeling involved groundwater flow modeling, particle tracking and solute transport modeling. Various scenarios of remedial action were modeled, addressing future time periods of 25, 50 and 150 years. A groundwater model provided by the USGS served as the basis of this modeling, and the final results were reviewed and approved by the USGS.

The final draft RI and FS reports were issued by KUCC in March of 1998. The next steps in the federal CERCLA process involve public hearings, and ultimately issuance of a Record of Decision (ROD) by USEPA. However, the USEPA Remedial Project Manager desires to formulate a remedial response that correlates well with the NRD Consent Decree requirements before proceeding with this process.

# 2.3 KUCC/JVWCD Study and Conceptual Design

KUCC and JVWCD cooperated in commissioning a study to determine the best method of accomplishing the goals of the NRD Consent Decree and federal CERCLA remedial requirements for the contaminated groundwater in the southwestern Salt Lake Valley. KUCC and JVWCD retained the firm of Camp Dresser and McKee (CDM) to perform this study. This work resulted in a conceptual design for an extraction well and treatment project, which meets the State and federal expectations. The conceptual design is for a project that will produce more than 7,000 AF/year of municipal quality water as was contemplated for the treatment component of the State NRD Consent Decree. It also provides for additional replacement of water beyond that contemplated by the Consent Decree, including the 1,235 AF/year of water otherwise lost in the treatment process.

# 2.4 JVWCD System and Service Area

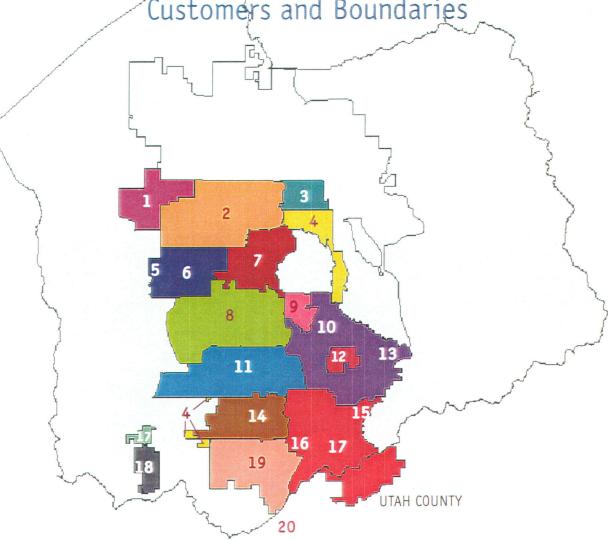
JVWCD is a political subdivision of the State of Utah. It was created in 1951 by the State Legislature under the Water Conservancy Act. The District remains under the jurisdiction of the federal Third District Court of the State of Utah.

JVWCD is governed by a board of eight directors, who represent seven geographical divisions. They are nominated by either the county commission or a city council, depending upon the division they represent. The Governor appoints each director for a four-year term.

JVWCD provides municipal and industrial (M&I) water to most areas of Salt Lake County that lie outside of the Salt Lake City service area. Portions of northern Utah County are also served by JVWCD. Figure 2.4A shows this service area.

JVWCD provides water under wholesale water purchase contracts to nineteen member agencies, including cities, improvement districts, state agencies and private companies. JVWCD also provides and distributes water to individual homes and businesses on a retail basis in areas where no viable retail agency exists.

Jordan Valley Water Conservancy District
Customers and Boundaries



# Location of Member Agencies

- 1 Magna Water Company
- 2 Granger-Hunter Improvement District (West Valley City)
- 3 City of South Salt Lake
- 4 JVWCD retail service area (Granite Park, Holladay, Union Park, Willow Creek and southwest area)
- 5 Hexcel Corporation
- 6 Kearns Improvement District
- 7 Taylorsville-Bennion Improvement District
- 8 West Jordan City
- 9 Midvale City

- 10 Sandy City\*
- 11 South Jordan City
- 12 White City Water Improvement District
- 13 Willow Creek Country Club
- 14 Riverton City
- 15 Draper Irrigation
- 16 Utah State Department of Corrections
- 17 Draper City
- 18 Hi-Country Estates Phase II
- 19 Bluffdale City
- 20 State Department of Public Safety

<sup>\*</sup>by contract through 2001

JVWCD operates a raw water collection system that collects water not only from local mountain streams in Salt Lake Valley, but also imports water from the Weber, Provo and Duschesne rivers. JVWCD operates two water treatment plants and a treated water transmission system within Salt Lake Valley. This system is shown in Figure 2.4B. The system contains hundreds of miles of aqueduct, transmission and distribution pipelines, and can convey water from any source to virtually any point within Salt Lake Valley. The system also involves wells, booster pump stations and treated water storage reservoirs.

# 3. PURPOSES OF PROPOSED PROJECT

KUCC and JVWCD have formulated a proposed project that is comprehensive in meeting the intent of the NRD Consent Decree, as well as the requirements and intent of the federal CERCLA RI/FS process. These purposes are described in the following paragraphs.

# 3.1 Meet the Requirements and Intent of the NRD Consent Decree

The purposes of this project include the following:

- a. Contain the contaminated groundwater plumes from enlargement.
- b. Place the water to beneficial (municipal) use.
- c. Remediate the aquifer over the long term.
- d. Restore and replace the equivalent of the affected natural resource for the benefit of the public in the affected area.

# 3.2 Meet the Intent and Remedial Requirements of CERCLA

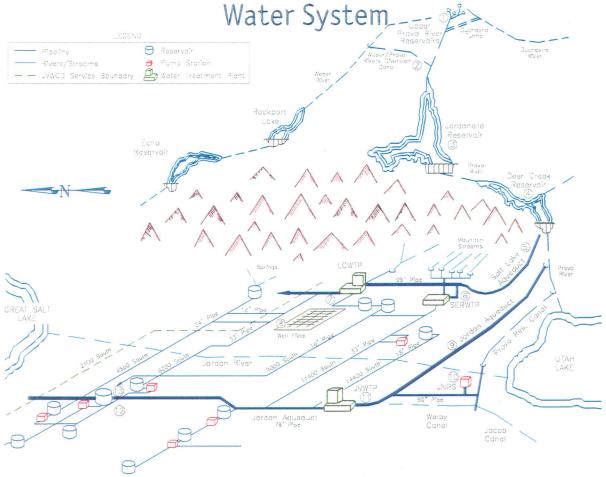
The project includes the following purposes anticipated in the RI/FS process:

- a. Protect human health and the environment.
- b. Remediate the aquifer over the long term.
- c. Contain the acid and highly elevated sulfate plume from enlargement.

# 3.3 KUCC/JVWCD Purposes

KUCC and JVWCD have additional purposes, which will benefit the public beyond the requirements of the State NRD Consent Decree or federal

# Figure 2.4B Jordan Valley Water Conservancy District



- 1 Upper Provo River Reservoirs. Located at the headwaters of the Provo River, this group of natural lakes has been enlarged for operation as reservoirs. As a major stockholder in the lakes, Jordan Valley Water Conservancy District (JVWCD) receives water directly from storage.
- 2 Weber/Provo Rivers Diversion Canal. A 12-mile canal with a capacity of 1,000 cfs that conveys water from rights on the Weber River and Echo Reservoir to JVWCD. The canal is also used by the Provo River Water Users Association (PRWUA) for the diversion of Weber River water to supply the Deer Creek Reservoir.
- 3 Jordanelle Reservoir. As a feature of the Bonneville Unit, Jordanelle Reservoir is the largest storage facility for Central Utah Project collected from the Provo River. Jordanelle has a volume capacity of 320,000 acre-feet (AF). JVWCD anticipates 50,000 AF annually for its municipal and industrial supply.
- 4 Deer Creek Reservoir. This reservoir is a feature of the Provo River Project. It has a volume capacity of 152,000 AF. JVWCD owns stock in the Provo River Water Users Association, which entitles it to water stored in this reservoir.
- 5 Salt Lake Aqueduct. This 69-inch diameter pipe, operated by Metropolitan Water District of Salt Lake City, conveys Provo River water from Deer Creek Reservoir to service areas of JVWCD, Salt Lake City, and Sandy City.

- 6 Southeast Regional Water Treatment Plant.

  JVWCD's 20 million gallon per day (MGD) facility treats water from
  the Salt Lake Aqueduct and local mountain streams.
- 7 Little Cottonwood Treatment Plant. Metropolitan Water District of Salt Lake City's 100 MGD plant delivers treated water to JVWCD, Salt Lake City and Sandy City service areas.
- 8 Well Field. This high-quality aquifer is the source of groundwater for JVWCD and many municipalities.
- 9 Jordan Aqueduct. This 78-inch pipe conveys water from Deer Creek and Jordanelle reservoirs to Jordan Valley Water Treatment Plant. Lower portions of the aqueduct transmit treated water to the JVWCD and MWD service areas.
- 10 Jordan Narrows Pumping Station. This station is currently used to pump Utah Lake water into the Welby and Jacob canals for irrigation purposes.
- 11 Jordan Valley Water Treatment Plant. This 180 MGD plant is owned by the Central Utah Water conservancy District and is operated by JVWCD.
- 12 Reservoirs and Pump Stations. These facilities store water and pump it to JVWCD's customers.
- 13 Jordan Aqueduct Terminal Reservoir. A 100 million gallon drinking water reservoir.

CERCLA requirements, which are included in the proposal. These purposes are to:

- a. Implement a project which is comprehensive and efficient in groundwater development, water delivery, operational and political issues.
- Improve the treated water quality beyond the 500-800 mg/L TDS level contemplated in Section I.D. of the Consent Decree, to 250 mg/L TDS.
- c. Restore and replace groundwater from the affected area (see Figure 4.1A) that is lost as a concentrate stream resulting from membrane treatment processes. JVWCD proposes a Jordan River/ shallow groundwater membrane treatment project under its own water rights to accomplish this purpose, that is contemplated in the Consent Decree.
- d. Provide existing facilities for concentrate disposal, in order to create additional cost savings and permitting efficiency.
- e. Better meet the needs of growing municipalities in the Zone A area by providing treated water at a high elevation that allows for westward land development.

# 4. AFFECTED AREA AND PUBLIC

# 4.1 Affected Area

The NRD Consent Decree requires that the Trustee use the benefits of the Trust Fund to restore, replace or acquire the equivalent of the natural resource "for the benefit of the public in the Affected Area..." (V.D.4). The Consent Decree defines the "Affected Area" as "the area in the southwestern portion of the Salt Lake Valley where surface and groundwater have been injured by Kennecott's mining and leaching operations." The Consent Decree further defines "injury to...groundwater" as contamination caused by Kennecott's mining and leaching operations resulting in: 1) increased levels over baseline of total dissolved solids, including sulfates, 2) pH levels lower than baseline, 3) metals concentrations exceeding baseline, or 4) solid phase contamination in the aquifer that can be redissolved in the future."

KUCC and JVWCD believe that the best representation of the Affected Area is the map of groundwater sulfate concentrations above 250 mg/L at any level. This is because sulfate concentrations above 250 mg/L are clearly above natural background concentrations. This map was developed in the

RI/FS process, and has been updated by KUCC to represent recent data. That map is shown as Figure 4.1A.

KUCC and JVWCD have defined the envelope showing the Affected Area, as shown in Figure 4.1B. For purposes of the Proposal, the total envelope is divided into two zones, A and B. Zone A encompasses approximately the western half of the Affected Area, and includes the high sulfate and low pH portion of the plume emanating from the Bingham Canyon area, some lower concentration plume areas emanating from the Lark area, and areas of sulfate concentrations from 250 to 1,000 mg/L in the Herriman area. Zone A includes the area commonly referred to by the RI/FS Technical Review Committee as the "acid plume." Zone B encompasses approximately the eastern half of the Affected Area, and includes areas impacted originally by the evaporation ponds in South Jordan. It includes sulfate concentrations generally from 250 to 1,000 mg/L. It includes the majority of the area referred to by the RI/FS Technical Review Committee as the "sulfate plume."

# 4.2 Public in the Affected Area

Figure 4.2A shows the corporate boundaries of public agencies in the Affected Area. These include the cities of West Jordan, South Jordan and Riverton; the Town of Herriman, and unincorporated Salt Lake County lands.

# 5. PROPOSED PROJECT

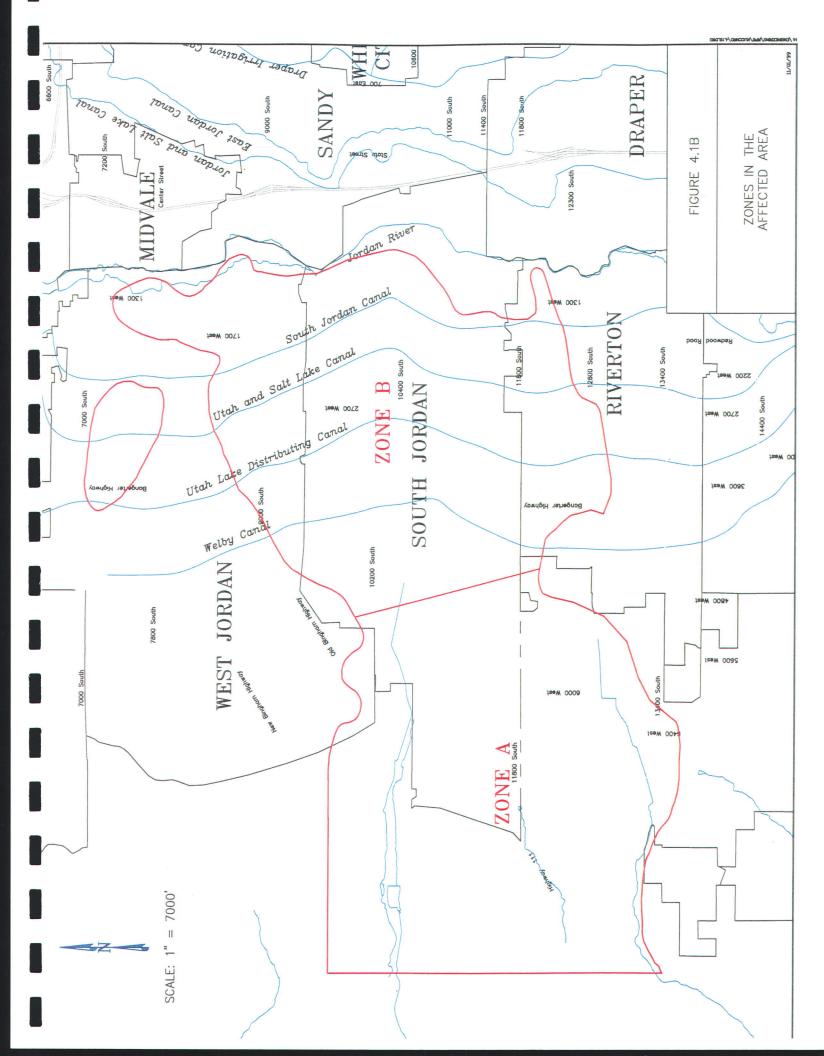
# 5.1 General

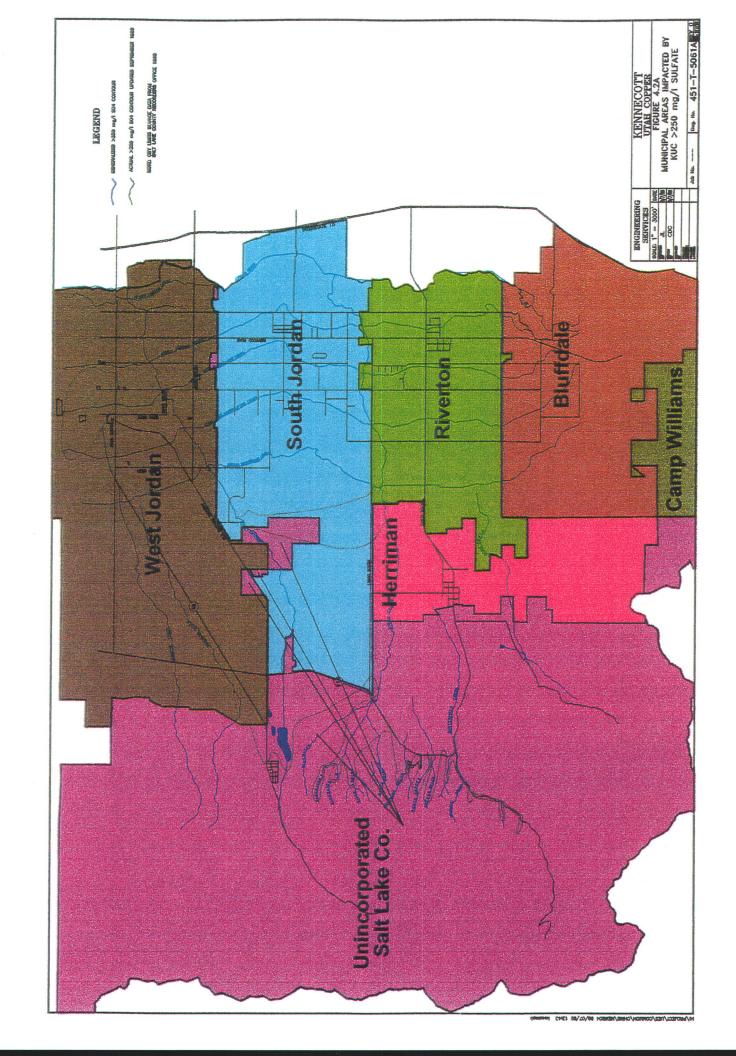
The physical facilities of the proposed project are described in the conceptual design report by CDM, which is attached to this proposal. That report provides substantial detail regarding extraction, treatment process, pipelines, water treatment plants, treated water delivery locations and concentrate disposal provisions.

The proposed project facilities are divided into Zone A and Zone B facilities. The CDM conceptual design report explains the cost-effective reasons for this segregation.

# 5.2 Groundwater Extraction

Groundwater extraction for treatment will involve existing KUCC extraction wells 1193 and 109 in Zone A, and new extraction wells B1 through B8 in Zone B, as shown in Figure 5.2A (and in Figure 5-9 in the CDM report). Table 5.2A shows the average annual volumes of groundwater extraction from these wells. Table 2-1 in the CDM report gives more information on each well. These extractions will provide sufficient feed water to membrane





process water treatment plants to provide for 7,000 AF annually of treated water from the deep, principal aquifer.

New wells SW1 through SW4 are additional shallow wells that will extract 3,000 AF annually from the shallow aquifer zone, that lies above the deeper principal aquifer in areas just west of the Jordan River. This will provide an additional component of the project to "restore or replace" the lost part of groundwater in the Affected Area, that is, loss of concentrate stream from the treatment process. Table 5.2A tabulates the average annual extractions from these wells. The annual extraction volumes from individual shallow and deep wells may vary, based upon operating experience that will be gained by KUCC and JVWCD.

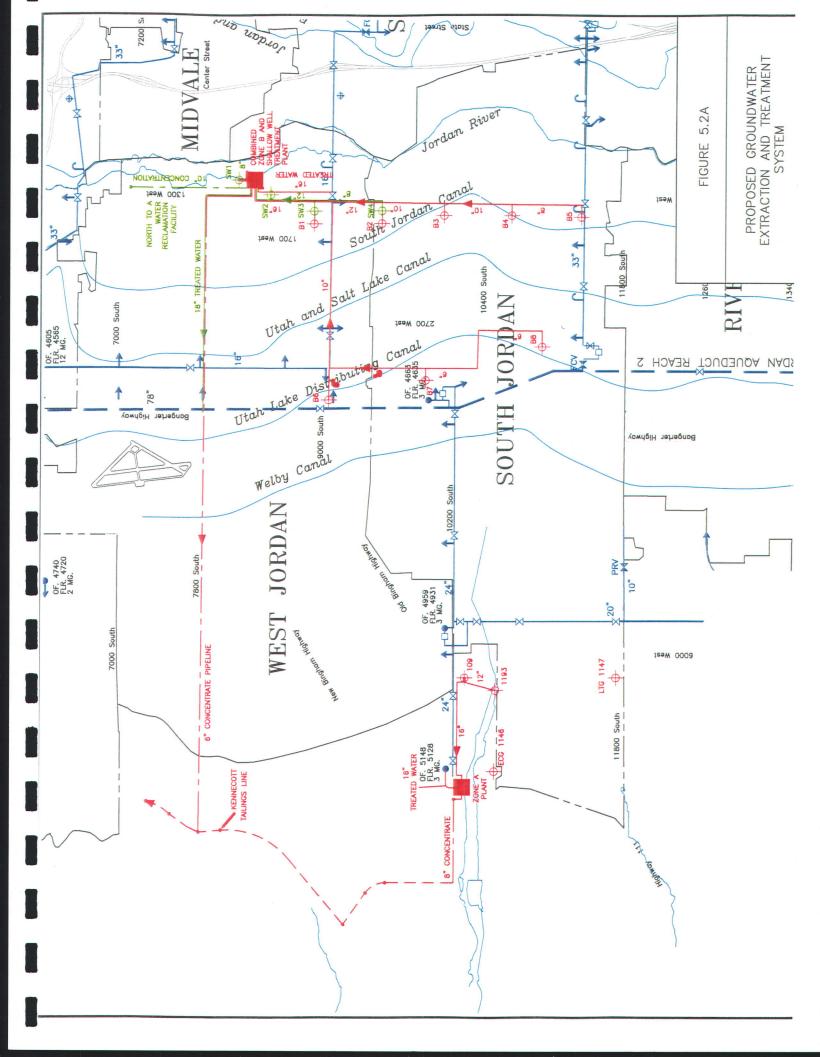
TABLE 5.2A
Annual Groundwater Extraction Volumes

| Wells                       | Annual Extraction (AF) |
|-----------------------------|------------------------|
| Zone A (wells 1193 and 109) | 4500                   |
| Zone B (wells B1-B8)        | 4200                   |
| Shallow Wells SW1-SW4       | 3000                   |
|                             | 11,700 AF              |

Additional extractions will be made by KUCC. These extractions will serve to contain and contract critical portions of the acid and highly elevated sulfate plume. KUCC will continue to operate its acid plume extraction well, which will extract at least a rolling average of 400 AF on an annual basis over a five year period to reduce the contamination in this area. KUCC will also operate well LTG1147, its "sulfate extraction well" north of Herriman. This will contain and contract the Lark plume area. These wells are also shown on Figure 5.2A. Some portion of these extractions may be used as feed water for the Zone A treatment plant.

# 5.3 Collection Pipelines

Collection pipelines ranging in diameter from 6 inches to 16 inches will collect extracted water from project extraction wells, and convey that feed water to Zone A and Zone B treatment plants. Collection pipelines for Zones A and B are shown in Figure 5-5 of the CDM report. Collection pipelines for the four shallow wells located in Zone B are shown in Figure 5-8 of the CDM report.



# 5.4 Water Treatment Plants

CDM has evaluated the treatment process required to produce municipal quality water from groundwater in the Affected Area. The membrane process known as reverse osmosis has been selected by CDM. CDM has outlined this treatment process performance in section 3 of their report, to produce municipal quality water with a total dissolved solids (TDS) concentration of 250 mg/L.

Two water treatment plants are proposed. Figure 5-5 in the CDM report shows the Zone A plant, located near 7000 West 10200 South, and the Zone B plant located at 8300 South 1000 West. The Zone A plant will be constructed on land owned by KUCC. The Zone B plant will be constructed on land owned by JVWCD. The location of the Zone A plant may be modified by KUCC to optimize treatment and conveyance and reduce costs.

The Jordan River/shallow wells component of the project will involve a common treatment plant with the Zone B plant. This is shown on Figure 5-8 of the CDM report.

CDM has prepared site layouts and preliminary treatment plant designs for the Zones A and B plants. These are shown in Figures 5-10, 5-11 and 5-12 of the CDM report.

Section 3 of the CDM report fully explains the treatment process parameters and characteristics of the Zones A and B treatment plants, including the shallow wells component. These plant conditions are summarized in Table 5.4A. Abbreviations in this table include acre-feet per year (AF/yr) and million gallons per day (MGD).

Table 5.4A

|                   | Feedwater |       | Product (Treated) Wate |       |
|-------------------|-----------|-------|------------------------|-------|
| Treatment Process | _(AF/yr)  | (MGD) | (AF/yr)                | (MGD) |
| Zone A            | 4500      | 4.46  | 3500                   | 3.46  |
| Zone B            | 4200      | 4.06  | 3500                   | 3.46  |
| Shallow Wells     | 3000      | 3.0   | 2300                   | 2.3   |

# 5.5 Treated Water Deliveries

The two treatment plants are located within the service area of JVWCD treated water conveyance infrastructure. The discharge of treated water to the JVWCD system is shown in Figures 5-5 and 5-8 of the CDM report.

The Zone A treatment plant will produce water at a relatively high elevation, in JVWCD's pressure Zone C or higher. This plant will produce water that will be conveyed to JVWCD's Zone C reservoir, at an elevation of 5,150 feet above sea level, at 7000 West 10200 South. This will be a substantial benefit to the public in the Affected Area, by receiving treated water at a high elevation to allow for westward land development.

The Zone B treated water will be conveyed southward to the JVWCD 16-inch transmission pipeline along 9000 South. As an alternative, it may be conveyed northward to the JVWCD 33-inch cross valley transmission pipeline at 6400 South. Either location will provide water to the public in the Affected Area, as well as to other JVWCD member agencies.

# 5.6 Concentrate Disposal

KUCC proposes to use its existing tailings slurry conveyance pipeline, from Bingham Canyon to the Magna tailings pond, for conveyance of concentrate from the Zone A and B treatment plants. It is anticipated that the much greater flow of KUCC tailings slurry in this pipeline will serve to stabilize the corrosive and precipitating nature of the project concentrate streams (see Table 5.6A). Disposal in the KUCC tailings pond will simplify discharge permitting issues. The tailings pond is subject to a UPDES and State of Utah groundwater permit, and KUCC will continue to be responsible for meeting discharge requirements from the impoundment. If any aspect of this approach (e.g., transporting the concentrate in the tailings line) becomes infeasible for any reason, an alternative approach will be required.

Table 5.6A
Effect of RO Concentrate on Tailings Line Chemistry

| Parameter       | Tailings Line | RO<br>Discharge | Composite<br>Flow | Net Change<br>(%) |
|-----------------|---------------|-----------------|-------------------|-------------------|
| SO <sub>4</sub> | 3050          | 4736            | 3115              | 2.13              |
| TDS             | 9030          | 10,259          | 9077              | 0.52              |
| рН              | 7.2           | 7.7             | 7.2               | 0.24              |
| Ca              | 873           | 1853            | 911               | 4.32              |
| CI              | 3160          | 1547            | 3098              | -1.96             |
| K               | 120           | 27              | 116               | -2.97             |
| Mg              | 363           | 1080            | 369               | 1.63              |
| Na              | 2010          | 508             | 1952              | -2.87             |

# Notes:

All values in mg/L except pH. Tailings water flow, 27,000 gpm.

RO concentrate flow, 1080 gpm.

Range of tailings concentrations typically ± 20%.

Table 5.6A indicates that the change in chemistry in the tailings water due to addition of the RO concentrate is very small, within the range of typical variability of the tailings water quality. Therefore, it is unlikely that this addition will change the characteristics of the tailings discharge significantly.

Section 3 of the CDM report fully explains the recovery rate of the reverse osmosis treatment processes, and the concentrate streams. In summary, they will be as shown in Table 5.6B:

Table 5.6B

| Treatment Process | Concentrate Flow Rate (MGD) | Concentrate Discharge Location                                   |
|-------------------|-----------------------------|--|
| Zone A            | 1.0                         | KUCC tailings pipeline (to Magna tailings pond)                  |
| Zone B            | 0.6                         | KUCC tailing pipeline (to Magna tailings pond)                   |
| Shallow Wells     | 0.6                         | Co-discharge with a water reclamation facility (to Jordan River) |

The concentrate stream resulting from the shallow wells component of the project will be extended northward, to the location of a water reclamation facility. This concentrate will be proposed to the Utah Division of Water Quality as a co-discharge at the water reclamation facility effluent outfall to the Jordan River. The co-discharge is proposed to occur within, or adjacent to, the outfall pipe from the water reclamation facility. The combination of the water reclamation facility effluent and the concentrate stream will meet Jordan River water quality parameters, including a class 4 TDS limitation of 1200 mg/L.

The potential water reclamation facility discharge locations are South Valley Water Reclamation Facility (SVWRF) and Central Valley Water Reclamation Facility (CVWRF). The more desirable co-discharge location is SVWRF, due to its proximity to the Zone B treatment plant site. To provide more definition to the proposed co-discharge, Table 5.6C tabulates the range of projected concentrate quality, based on a range of recovery rates from 76% to 85%.

Table 5.6C Shallow Groundwater Projected Concentrate Quality<sup>(a)</sup>

| Parameter      | Units                     | 76% Recovery | 85% Recovery |
|----------------|---------------------------|--------------|--------------|
| Calcium        | mg/L                      | 530          | 840          |
| Magnesium      | mg/L                      | 210          | 330          |
| Sodium         | mg/L                      | 490          | 780          |
| Potassium      | mg/L                      | 29           | 45           |
| Strontium      | mg/L                      | 2.8          | 4.5          |
| Barium         | mg/L                      | 0.08         | 0.13         |
| Iron           | mg/L                      | 0.00         | 0.00         |
| Manganese      | mg/L                      | 0.00         | 0.00         |
| Carbonate      | mg/L                      | 0.38         | 0.61         |
| Bicarbonate    | mg/L                      | 1,260        | 2,000        |
| Sulfate        | mg/L                      | 1,240        | 1,980        |
| Chloride       | mg/L                      | 910          | 1,440        |
| Nitrate        | mg/L                      | 12           | 18           |
| Silica         | mg/L                      | 150          | 230          |
| Carbon dioxide | mg/L                      | 150          | 150          |
| TDS            | mg/L                      | 4,200        | 6,650        |
| рН             |                           | 7.2          | 7.4          |
| Hardness       | mg/L as CaCO <sub>3</sub> | 2,180        | 3,470        |
| LSI            |                           | +1.27        | +1.87        |

<sup>(</sup>a) Assumes treatment using TFC ULP-T membrane, at 15 gfd

The range of effluent flow rates and TDS concentrations of SVWRF and CVWRF are shown in Table 5.6D.

Table 5.6D
Water Reclamation Facility Flow Rates and TDS

| Water<br>Reclamation<br>Facility | Parameter                    | Units | Max. | Min. | Average |
|----------------------------------|------------------------------|-------|------|------|---------|
| SVWRF                            | Effluent flow <sup>(a)</sup> | mgd   | 27.3 | 24.2 | 25.7    |
| CVWRF                            | Effluent flow(b)             | mgd   | N/A  | N/A  | 60      |
| SVWRF                            | TDS <sup>(c)</sup>           | mg/L  | 1094 | 870  | 982     |
| CVWRF                            | TDS <sup>(c)</sup>           | mg/L  | 768  | 704  | 739     |
|                                  |                              |       |      |      |         |

## Notes

Based upon the information shown in Table 5.6D, together with the following assumptions, Table 5.6E shows the combined average TDS concentrations that would result from the proposed co-discharge of shallow groundwater concentrate with sewage effluent.

# Assumptions:

- a. Shallow groundwater feedwater rate = 4.0 mgd;
- b. 21% blend (bypass) of feedwater;
- c. Recovery rates of 76% or 85%, with qualities as shown in Table 5.6C; and
- d. Use averages from Table 5.6D.

<sup>(</sup>a) 1999 monthly averages, from SVWRF records

<sup>(</sup>b) Estimate, from conversation with CVWRF

<sup>(</sup>c) From 1993-1994 JVWCD measurements

Table 5.6E
Combined TDS Resulting from Co-Discharge

| Co-Discharge At: | Membrane<br>Process<br>Recovery Rate | Concentrate<br>Flow Rate<br>(mgd) | Combined Co-<br>Discharge TDS<br>(mg/L) |
|------------------|--------------------------------------|-----------------------------------|---|
| SVWRF            | 76%                                  | 0.8                               | 1079                                    |
|                  | 85%                                  | 0.6                               | 1111                                    |
| CVWRF            | 76%                                  | 0.8                               | 785                                     |
|                  | 85%                                  | 0.6                               | 798                                     |

Table 5.6E shows that the proposed shallow groundwater concentrate codischarge at either water reclamation facility would meet the State class 4 limit of 1200 mg/L TDS for the Jordan River.

Certain assumptions concerning disposal of concentrate were made in reaching the NRD settlement and in developing this Proposal. KUCC and JVWCD will require sufficient flexibility to address this issue if the assumptions cease to be viable. Those assumptions are:

- a. The concentrate streams from the Zone A and Zone B treatment plants can be managed and transported in the tailings disposal pipeline operated by KUCC. The concentrate would then be disposed in KUCC's tailings impoundment and any water decanted from the concentrate stream would be disposed or handled in accordance with KUCC's UPDES and groundwater permits.
- b. Effluent limits for the discharge of this effluent would not be any more stringent than KUCC's soon-to-be-issued UPDES permit.
- c. Direct discharge of the concentrate streams to the Great Salt Lake will be permitted at such time as KUCC's tailings operation closes or prior to that time if the concentrate streams cannot be managed within the tailings disposal system for any reason.
- d. The co-discharge of concentrate from treatment of shallow wells SW-1 through SW-4 will be permitted at a water reclamation facility, provided the combined discharge TDS limit of 1200 mg/L is met, together with other pertinent discharge limits.

# 6. GROUNDWATER IMPACTS AND REMEDIATION

# 6.1 Groundwater Modeling

Flow Model. KUCC developed a groundwater model of the southwestern Jordan Valley (SWJV) as part of the RI/FS to analyze flow paths and groundwater velocities in the principal aquifer and to evaluate remedial options. The model area extends from the bedrock/alluvial interface at the base of the Oquirrh Mountains on the west, to the bedrock/alluvial interface at the base of the Wasatch Mountains on the east, and from approximately 6000 South on the north to the base of the Traverse Mountains on the south. A more complete description of this model is included in Appendix A. The model calibration closely simulated observed aquifer conditions in the SWJV.

Transport Model. KUCC's calibrated groundwater flow model was then coupled with a contaminant transport code to model historical and future migration of storm and mine waste water that leaked from the former Bingham Creek reservoir. This model combines groundwater flow with the physical aspects of contaminant transport including advection, dispersion and chemical reactions. The transport model was calibrated to observed 1996-1997 sulfate concentrations down gradient of the former Bingham Creek reservoirs. Calibration was achieved by finding a set of transport parameters (i.e., retardation, dispersivity and porosity) within an accepted range that reasonably reproduced field-measured concentrations. The model is believed to be a reasonable first approximation of the kinematics of the Bingham Creek and former evaporation ponds plumes and allows the feasibility of various remedial strategies to be tested. A complete description of the model is included in Appendix A.

# 6.2 Hydrogeology

**Groundwater Recharge.** The principal aquifer is recharged from surface infiltration of precipitation, irrigation water and canal water, bedrock inflow, and to a limited extent from surface infiltration of waters emanating from Butterfield Creek. The bedrock of the Oquirrh Mountains provides recharge to the groundwater in the western part of the SWJV, and this groundwater then travels eastward into the basin. Aquifer recharge is greater in the eastern part of the SWJV and in the Herriman area due to recharge from surface water.

**Groundwater Extraction.** Most of the water extracted from the principal aquifer is used for municipal or industrial purposes. A summary of recent extractions is included in Appendix B.

Groundwater Elevation Changes. The average depth below ground surface to the potentiometric surface of the principal aquifer in the SWJV is about 235 feet. Groundwater flow is predominantly west to east from the base of the Oquirrh Mountains to the Jordan River. Groundwater elevations declined substantially throughout the SWJV from 1986 to 1996. The Affected Area is included within SWJV. A noteworthy area of decline is in the region of the West Jordan City well field, to the north of the Affected Area. A description of recent groundwater elevation changes is included in Appendix B.

**Groundwater Velocity.** Average horizontal groundwater velocities have been estimated by KUCC to be about 550 feet per year. Isotopic analyses were conducted by KUCC to confirm this estimate. These analyses yielded a linear groundwater velocity estimate of 500-650 feet per year. A more complete discussion of these estimates and analyses is included in Appendix B.

# 6.3 Plume Contraction and Containment

Using the groundwater flow and transport models, predictions have been made by KUCC regarding the disposition of sulfate under various extraction scenarios. Appendix C provides detailed information regarding these scenarios and the results.

Two cases were investigated in the region between KUCC production wells 109 and 1193 and the West Jordan municipal well field: one with groundwater injection and one without injection. West Jordan City well field pumping rates of 3,000 acre-feet per year and 4,000 acre-feet per year were evaluated.

These modeling runs suggest that the ideal environment for sulfate containment and restoration of the aquifer involve West Jordan City limiting its well field pumping to 3,000 afy. This is close to the sustained yield of the aquifer in that area. KUCC also proposes to inject clean water between the sulfate extraction zone and the West Jordan municipal well field. KUCC and West Jordan are continuing to work together to optimize extraction rates. KUCC plans to meet further with UDEQ to address issues and concerns about its proposed injection wells.

The modeling runs suggest that the proposed containment and extraction system will be effective at keeping elevated sulfate (> 1500 mg/L) on KUCC property near the sulfate extraction wells in Zone A. It also reduces sulfate concentrations throughout Zones A and B in the Affected Area.

# 7. WATER RIGHTS AND PROPOSAL TO THE STATE ENGINEER FOR MANAGEMENT OF WATER RIGHTS WITHIN THE AFFECTED AREA

# 7.1 Consent Decree Requirements

The Consent Decree states that "allocation of the right to use surface or groundwater resources by the public shall be by the Utah State Engineer pursuant to Utah water law." In order to obtain a credit against the ILC, the Consent Decree requires that groundwater be treated to municipal quality, and provided to M&I water purveyors. It anticipates that municipal water rights will be used for project groundwater extractions.

# 7.2 Water Rights in the Affected Area

Appendix D tabulates all groundwater rights in the Utah Division of Water Rights database that lie within the Affected Area, as shown in Figure 4.1A. Various agricultural, stock watering, domestic and industrial water rights exist. The only water rights currently approved for municipal use in the Affected Area are shown in Table 7.2A and in Figure 7.2A:

TABLE 7.2A

| Water Right<br>Number | Owner            | Priority Date | Flow Rate<br>(cfs)  | Potential Annual Withdrawal (AF) |
|-----------------------|------------------|---------------|---------------------|----------------------------------|
| 59-1210               | JVWCD            | 1955          | 3.55                | 850                              |
| 59-1536               | JVWCD            | 1959          | 5.0                 | 3613                             |
| 59-1572               | West Jordan City | 1960          | 1.0                 | 723                              |
| 59-1533               | Riverton City    | 1959          | 1.25 <sup>(a)</sup> | 903                              |

<sup>(</sup>a) One of four points of diversion lies within the Affected Area

Some noteworthy industrial water rights belong to KUCC, for pumping of their process production wells 1193 and 109, as follows:

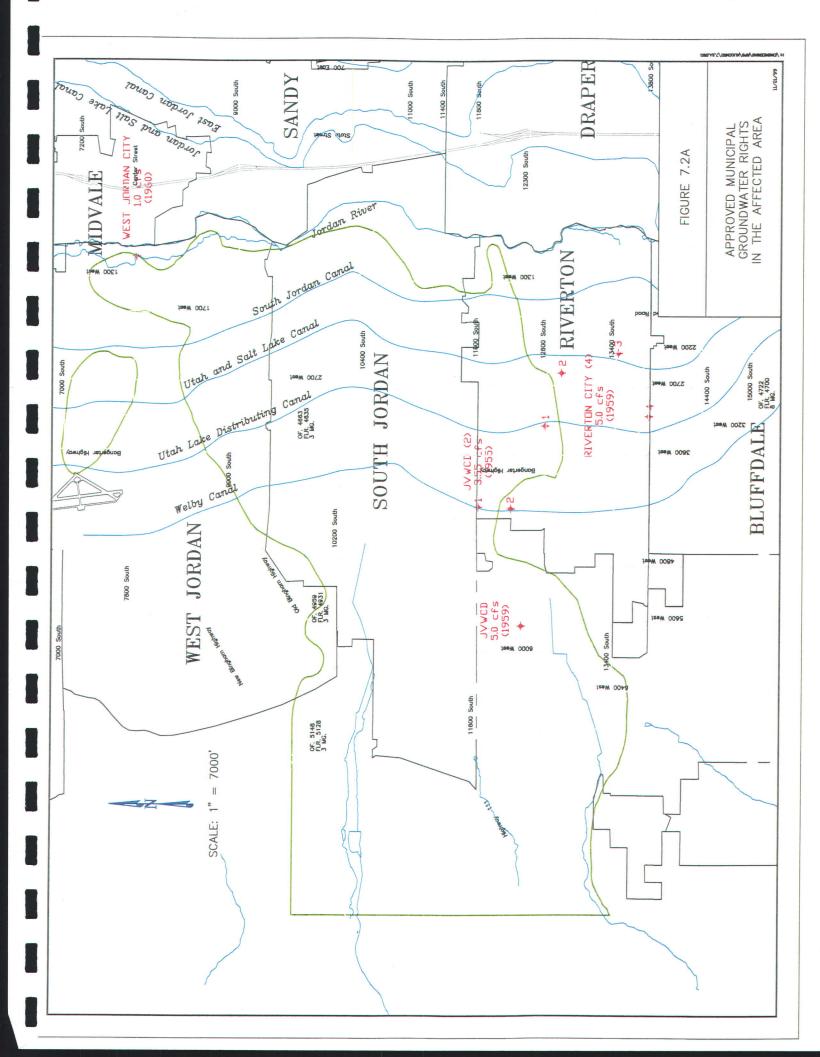


TABLE 7.2B

| Water Right<br>Number | Owner | Priority<br>Date | Flow Rate<br>(cfs) | Potential Annual Withdrawal (AF) |
|-----------------------|-------|------------------|--------------------|----------------------------------|
| 59-1653               | KUCC  | 1961             | 4.0                | 2890                             |
| 59-1042               | KUCC  | 1962             | 4.44               | 3209                             |

JVWCD also has pending change applications for shallow groundwater rights near the Jordan River in the Affected Area. These are based upon the following change application numbers:

TABLE 7.2C

| Water Right<br>Number | Underlying Water<br>Right Owner            | Priority Date | Flow Rate<br>(cfs) | Potential<br>Annual<br>Withdrawal<br>(AF) |
|-----------------------|--|---------------|--------------------|---|
| 57-5513<br>(a23590)   | JVWCD                                      | 1870          | 11.78              | 5000                                      |
| 59-5619<br>(a23711)   | Utah & Salt Lake<br>Canal Company          | 1870          | 15.48              | 2882                                      |
| 59-3500<br>(a23622)   | South Jordan<br>Canal Company              | 1870          | 5.77               | 1205                                      |
| 59-5622<br>(a23863)   | WJWUC/East<br>Jordan Irrigation<br>Company | 1870          | 16.85              | 4797                                      |

These water rights have underlying Utah Lake and/or Jordan River rights of early priority dates. JVWCD anticipates that the State Engineer will approve these rights for operation of shallow aquifer wells.

# 7.3 Proposed Change Applications for the Project

The following water rights are proposed for extraction wells in Zones A and B of the proposed project:

# TABLE 7.3A

| Water Right Number     | Owner | Annual<br>Volume<br>(AF) | Zone | Extraction Wells |
|------------------------|-------|--------------------------|------|------------------|
| 59-1210                | JVWCD | 850                      | В    | B6-8             |
| 59-1536                | JVWCD | 3350                     | В    | B1-8             |
| 59-1653 <sup>(a)</sup> | KUCC  | 2300                     | Α    | 1193             |
| 59-1042 <sup>(a)</sup> | KUCC  | 2300                     | Α    | 109              |
| 57-5513                | JVWCD | 3000                     | В    | SW1-4            |

<sup>(</sup>a) To be converted to municipal rights and transferred to JVWCD.

The Kennecott groundwater rights will be converted to municipal use initially. After KUCC operates the Zone A treatment plant for approximately five years, to reach stability in the treatment process, the groundwater rights will be transferred to JVWCD.

# 7.4 Proposal to the State Engineer Concerning Water Rights

In August 1999, KUCC proposed to the State Engineer (see Appendix F) that certain restrictions be placed on future water development in the southwestern Jordan Valley to facilitate the NRD remedial process proposed here and to prevent further migration of existing contamination. These restrictions included:

- a. Completion depth and pumping rate restrictions on wells drilled within 3,000 feet south of the known 250 mg/L sulfate isoconcentration line in the Herriman area, as shown on Figure 4.1A.
- b. Completion depth and pumping rate restrictions on wells drilled within 3,000 feet north of the known 250 mg/L sulfate isoconcentration line in the West Jordan area, as shown on the same figure.
- c. Prohibition of new well development within the 250 mg/L sulfate isoconcentration line in the former KUCC evaporation pond area (South Jordan) until Kennecott installs its NRD remediation and water supply and treatment systems, achieves hydraulic containment of the upgradient groundwater plume, and the system reaches steady state and achieves a sulfate level in the area below 250 mg/L.

Appropriate completion depths and pumping rates would be determined on a case-by-case basis using the most up-to-date information on location and depth of contamination, aquifer properties, and user needs. KUCC would supply this information to the State Engineer and any water user upon request. The restricted area will shrink as remediation and natural attenuation reduce the size of the contaminated zone.

KUCC is committed to assist affected property owners in obtaining an adequate water supply by identifying alternative water sources, providing technical assistance in siting and completing of supply wells, and providing supplemental financing in cases where the presence of contamination causes an additional cost burden to the property owner.

# 8. COST ESTIMATES

# 8.1 Capital Costs for Deep Groundwater Extractions

This is the base project that was specifically contemplated by the State NRD Consent Decree. The CDM conceptual design report includes extensive documentation and tables showing capital cost estimates for this portion of the project in Zones A and B. In summary, Table 7-2 (in the CDM report) shows these capital cost estimates. The total capital cost estimate is \$29.67 million, based upon a 10% contingency estimate.

# 8.2 Capital Cost Estimates for Shallow Groundwater Extraction

This is a project enhancement feature proposed by JVWCD, and endorsed by KUCC. The capital costs are explained fully in the CDM conceptual design report. Table 7-2 summarizes those capital costs. The total cost estimate is \$7.32 million, based upon a 10% contingency estimate.

# 8.3 Operation, Maintenance and Replacement Costs

The CDM conceptual design report fully explains the estimates for operation, maintenance and replacement (O, M&R) costs. The CDM report also estimates the net present value of these costs. Table 7-2 summarizes the annual O, M&R costs, and shows their net present value, based upon 50 years of operation.

# 8.4 Avoided Capital Costs

The NRD Trust Fund was created to address contamination of groundwater that might otherwise have been developed for municipal purposes by municipal water purveyors. The Consent Decree contemplates that the water purveyor(s) receiving the Trust Fund benefits would pay its avoided cost of

developing groundwater, without contamination. This is referred to as "cost of development without contamination" in Attachment 16 of the Consent Decree.

JVWCD has performed a more detailed estimate of this avoided capital cost of development without contamination than is available in the Consent Decree. Figure 8.4A shows the location of four wells that would have been developed by JVWCD if contamination had not been present. The location of JVWCD transmission pipelines, pump station and reservoir facilities throughout the Affected Area would have made this an efficient endeavor.

Table 8.4A lists the assumptions, and provides the details for the avoided capital cost estimate. The estimated avoided capital cost is \$2.8 million.

# 8.5 Avoided Operating Costs

The Consent Decree (article V.D.2.b.i.) requires that avoided operating costs for groundwater development without contamination be paid to KUCC toward a KUCC-proposed project funded from the Trust Fund. These avoided operating costs are to be paid by the benefitting water purveyor(s). The Consent Decree sets this cost at \$49/AF in 1995 dollars. This cost is to escalate in accordance with the ENR "20 cities" cost index.

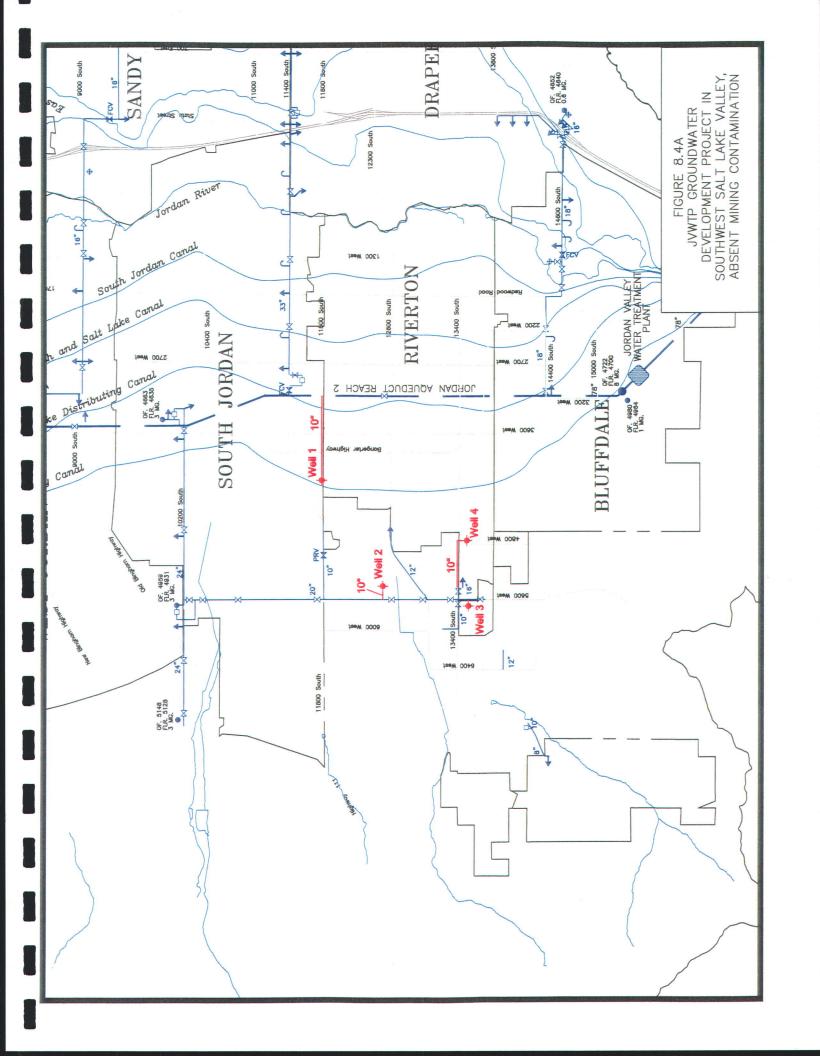
JVWCD has calculated the net present value of this operating cost contribution for a 50 year period, assuming a 7% discount rate. The net present value is \$4.7 million (in 1999 dollars), and \$4.9 million (in 2000 dollars), as shown in Table 9.0A.

## 8.6 Total Cost Estimate

The total cost of the proposed project, including capital costs and net present value for 50 years of O, M&R costs is shown in CDM's Table 7-2, and in the following Table 8.6A. The total net present cost, in 1999 dollars, is \$65.14 million, based upon a 10% contingency estimate. These total project costs do not include additional capital and O, M&R costs that KUCC will provide in industrial pretreatment of Zone A water to allow for the conventional reverse osmosis treatment of Zone A water described in this project. Also not included are Zone A operating costs related to CERCLA response actions beyond 50 years that KUCC will provide.

# 9. PROJECT FUNDING

KUCC and JVWCD propose to share in funding the proposed project, together with funds from the NRD Trust Fund. Table 9.0A lists the funding proposed by KUCC and JVWCD. It is proposed that the State Trustee transfer the entire amount of the



## TABLE 8.4A

# **Estimate for Avoided JVWCD Capital Cost of Groundwater Development, Absent Mining Contamination**

# September 1, 1999

### 1. **Assumptions:**

- 7000 AF per year extraction
- Constant flow over 330 days per year (this is equivalent to flow pattern from NRD project)
- Total flow rate = 10.7 cfs
- 4 wells, each at average flow rate of 2.7 cfs (1200 gpm)
- Average well depth of 700 feet
- Brick pump building and site improvements/landscaping at each well
- Discharge to existing JVWCD transmission system

#### 2. Facilities:

(See Figure 8.4A)

### 3. **Cost Estimates:**

- - <u>Pipelines:</u> 16,500 LF 10" PVC pipe at \$4.0/LF = \$66,000

## Well Drilling:

(Compare with 1997 1159 East 4500 South drilling costs, plus 8%)

# Typical Well:

| Mobilize/Demobilize        | 1 LS              | \$27,000 |
|----------------------------|-------------------|----------|
| Special conditions         | 1 LS              | \$6,480  |
| Conductor casing           | 120 LF @ \$223    | \$26,760 |
| Drill 24" borehole         | 580 LF @ \$59.40  | \$34,452 |
| Geophysical logging        | 1 LS              | \$2,700  |
| Caliper survey             | 1 LS              | \$1,080  |
| Well installation:         |                   |          |
| - 16" steel casing         | 500 LF @ \$41.28  | \$20,640 |
| - 16" well screen          | 200 LF @ \$183.34 | \$36,668 |
| - 2" gravel feed tube      | 300 LF @ \$4.32   | \$1,296  |
| Install gravel pack        | 500 LF @ \$32.40  | \$16,200 |
| Install annular grout seal | 200 LF @ \$40.42  | \$8,084  |
| Initial well development   | 40 hr @ \$243     | \$9,720  |
| Install test pump          | 1 LS              | \$4,235  |
| Well development pumping   | 40 hr @ \$135     | \$5,400  |
| Well pump testing          | 34 hr @ \$135     | \$4,590  |

# Table 8.4A (continued)

|                            | Total for typical well: | \$212,600 |
|----------------------------|-------------------------|-----------|
| Fluids/cuttings disposal   | 1 LS                    | \$2,700   |
| Disinfection/capping       | 1 LS                    | \$1,570   |
| Plumbeus/alignment testing | 1 LS                    | \$1,080   |
| Video camera survey        | 1 LS                    | \$1,945   |

<u>Pump building and site improvements:</u> (Compare with 1998-1999 1159 East 4500 South well construction costs, plus 4%):

| Land purchase                 |                         | \$50,000  |
|-------------------------------|-------------------------|-----------|
| Mobilize/demobilize           |                         | \$15,060  |
| Site improvements             |                         | \$15,000  |
| Landscaping/irrigation system |                         | \$20,800  |
| Yard piping/structures        |                         | \$6,100   |
| Pump building/architecture    |                         | \$43,420  |
| Pump station mechanical       |                         | \$41,260  |
| Supply/install pump/motor     |                         | \$41,800  |
| Electrical systems            |                         | \$28,680  |
| Instrumentation/controls      |                         | \$9,500   |
| JVWCD RTU                     |                         | \$12,000  |
| Change orders                 |                         | \$6,000   |
|                               | Total for typical well: | \$289,620 |

# **Summary of costs:**

| Pipelines                |                                | \$66,000    |
|--------------------------|--------------------------------|-------------|
| Well drilling (4 wells)  |                                | \$850,400   |
| Well equipping (4 wells) |                                | \$1,158,480 |
|                          | Subtotal:                      | \$2,074,880 |
| Engineering @ 25%        |                                | \$518,720   |
| Contingency @ 10%        |                                | \$507,488   |
|                          | Total Cost Estimate (rounded): | \$2,801,000 |

| Pres                              | Tal<br>Present Worth Cos | Table 8.6A<br>Costs of Proposed Project | Project                 |                                 |                           |
|-----------------------------------|--------------------------|---|-------------------------|---------------------------------|---------------------------|
| Facility                          | Capital<br>Costs         | Annual O&M<br>Costs                     | O&M<br>Present<br>Costs | Replacement<br>Present<br>Costs | Total<br>Present<br>Costs |
| 3                                 | Costs Based on a         | a 40% Contingency                       | lency                   |                                 |                           |
| Zone A RO Facility at 10200 South | \$13,010,000             | \$810,000                               | \$10,560,000            | \$1,130,000                     | \$24,700,000              |
| JVWCD Enhancement to Zone A       | \$380,000                | \$40,000                                | \$460,000               | \$70,000                        | \$910,000                 |
| Zone B RO Facility at 8200 South  | \$21,430,000             | \$710,000                               | \$9,290,000             | \$1,190,000                     | \$31,910,000              |
| Shallow Wells at 8200 South       | \$9,040,000              | N/A                                     | N/A                     | N/A                             | \$9,040,000               |
| JVWCD Shallow Wells               | N/A                      | \$260,000                               | \$3,430,000             | \$820,000                       | \$4,250,000               |
| JVWCD Enhancement for Zone B      | \$1,920,000              | \$120,000                               | \$1,580,000             | \$220,000                       | \$3,720,000               |
| Total Project Costs               | \$45,780,000             | \$1,940,000                             | \$25,320,000            | \$3,430,000                     | \$74,530,000              |
|                                   | Costs Based or           | Costs Based on a 10% Contingency        | jency                   |                                 |                           |
| Zone A RO Facility at 10200 South | \$10,580,000             | \$810,000                               | \$10,560,000            | \$920,000                       | \$22,060,000              |
| JVWCD Enhancement for Zone A      | \$310,000                | \$40,000                                | \$460,000               | \$60,000                        | \$830,000                 |
| Zone B RO Facility at 8200 South  | \$17,230,000             | \$710,000                               | \$9,290,000             | \$980,000                       | \$27,500,000              |
| Shallow Wells at 8200 South       | \$7,320,000              | N/A                                     | N/A                     | N/A                             | \$7,320,000               |
| JVWCD Shallow Wells               | N/A                      | \$260,000                               | \$3,430,000             | \$680,000                       | \$4,110,000               |
| JVWCD Enhancement for Zone B      | \$1,550,000              | \$120,000                               | \$1,580,000             | \$180,000                       | \$3,310,000               |
| Total Project Costs               | \$36,990,000             | \$1,940,000                             | \$25,320,000            | \$2,820,000                     | \$65,130,000              |

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|B |B

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TABLE 9.0A

# Total Project Present Worth Costs (Based on 10% Contingency, July 2000 Dollars<sup>(a)</sup>, 50 Years Operation)

# September 1999

| Facility C                                    |                  | O&M              | Replacement      | Total            |              | Funding Source   |               |
|---|------------------|------------------|------------------|------------------|--------------|--|---------------|
|   | Capital<br>Costs | Present<br>Costs | Present<br>Costs | Present<br>Costs | Trust Fund   | JVWCD  | KUCC          |
| Zone A  |                  |                  |                  |                  |              |  |               |
| - Pretreatment/water quality \$127 management | \$127,000,000    | \$26,343,000     | \$2,291,000      | \$155,634,000    |              |  | \$155,634,000 |
| - Acid plume well \$                          | \$1,400,000      | \$3,429,000      | \$126,000        | \$4,955,000      |              |  | \$4,955,000   |
| - Sulfate extraction well                     | \$650,000        | \$2,576,000      | \$58,000         | \$3,284,000      |              |  | \$3,284,000   |
| - RO facility at 10200 South \$10             | \$10,897,000     | \$10,876,000     | \$948,000        | \$22,721,000     | \$21,365,000 | \$1,357,000 <sup>(b)</sup>                               |               |
| - JVWCD process enhancement                   | \$319,000        | \$474,000        | \$62,000         | \$855,000        |              | \$855,000  |               |
| Zone B  |                  |                  |                  |                  |              |  |               |
| - RO facility at 8200 South \$11              | \$17,747,000     | \$9,569,000      | \$1,009,000      | \$28,325,000     | \$21,365,000 | \$1,528,000 <sup>(b)</sup><br>\$4,876,000 <sup>(c)</sup> | \$556,000     |
| - JVWCD process enhancement \$                | \$1,597,000      | \$1,627,000      | \$185,000        | \$3,409,000      |              | \$3,409,000  |               |
| Subtotal, Zones A and B \$150                 | \$159,610,000    | \$54,894,000     | \$4,679,000      | \$219,183,000    | \$42,730,000 | \$12,025,000   | \$164,429,000 |

|   |                      | O&M              | Replacement      | Total            |                            | Funding Source             |               |
|---|----------------------|------------------|------------------|------------------|----------------------------|----------------------------|---------------|
| Facility                                  | Capital<br>Costs     | Present<br>Costs | Present<br>Costs | Present<br>Costs | Trust Fund                 | JVWCD                      | KUCC          |
| JVWCD Utah Lake/Jordan<br>River Component |                      |                  |                  |                  |                            |                            |               |
| - Shallow wells/RO facility at 8200 South | \$7,540,000          | \$3,533,000      | \$700,000        | \$11,773,000     | \$7,371,000 <sup>(d)</sup> | \$4,402,000 <sup>(d)</sup> | (f)           |
| Trustee Management of Assets              | \$657,000            |                  |                  | \$657,000        | \$657,000                  |                            |               |
| TOTALS                                    | TOTALS \$167,807,000 | \$58,427,000     | \$5,379,000      | \$231,613,000    | \$50,758,000               | \$16,427,000               | \$164,429,000 |
| TOTALS BY TRUST FUND                      | \$33,231,000         | \$15,569,000     | \$1,957,000      |                  | \$50,758,000               |                            |               |
| TOTALS BY JVWCD                           | \$4,970,000          | \$10,510,000     | \$947,000        |                  |                            | \$16,427,000               |               |
| TOTALS BY KUCC \$129,606,000              | \$129,606,000        | \$32,348,000     | \$2,475,000      | \$231,613,000    | \$0                        | \$0                        | \$164,429,000 |
|   |                      |                  |                  |                  |                            |                            |               |

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Notes:
(a) July 2000 dollars are estimated by multiplying CDM and JVWCD estimates from CDM Table 7-2 and JVWCD/KUCC Table 15.0 by 1.03 (b) Part of JVWCD avoided capital cost for groundwater development of 7,000 AF without contamination (\$2,885,000)

(c) JVWCD avoided O&M cost for groundwater development of 7,000 AF without contamination (\$4,876,000)

(d) Trust Fund to pay most of capital cost, to extent of "cost of lost use" funds by July 2000

(e) JVWCD to pay O,M&R costs, and remainder of capital not paid by Trust Fund (f) Underlying water right was previously transferred to JVWCD by KUCC

Trust Fund, less State expenses in administration, to KUCC and JVWCD for accomplishing the proposed project. This transfer would be done in two stages, as described in Table 12.1A.

In addition to the capital, operating, maintenance and replacement costs contributed by KUCC and JVWCD, as shown in Table 9.0A, the following contributions of land and assets currently owned by KUCC and JVWCD will be made to the project:

- Zone A treatment plant site contributed by KUCC
- Zone A pretreatment facilities by KUCC
- Wells 1193 and 109 wells and sites by KUCC
- Water rights for wells 1193 and 109 by KUCC
- Zone B treatment plant site by JVWCD
- Extraction wells SW1 and SW2 land, plus well SW1, by JVWCD
- Water rights for wells B1-8 and SW1-4 by JVWCD.

Additional in-kind contributions that will be made to the project by KUCC include:

- Use of its slurry pipeline for concentrate disposal
- Acid plume well facilities and O, M&R
- Sulfate extraction well facilities and O, M&R
- Pretreatment and water quality management for Zone A, prior to reverse osmosis treatment.

# 10. OPERATION, MAINTENANCE AND REPLACEMENT RESPONSIBILITIES

# 10.1 Zone A Facilities

KUCC would construct, own, operate, maintain and replace the following extraction wells:

- a. Extraction wells 1193 and 109 (the Zone A extraction wells)
- b. Well number ECG1146 (the "acid plume" extraction well)

c. Well number LTG1147 located near 6200 West 11800 South ("the sulfate extraction well")

KUCC will construct, own, operate, maintain and replace Zone A pretreatment facilities to treat the concentrations of metals and sulfate contributed from the acid plume. This facility might be an enlargement of KUCC's existing nanofiltration demonstration treatment plant. KUCC will operate this facility(ies) to maintain the concentration of sulfate in the feed water at or below 1200 mg/L.

The collection pipelines from the project extraction wells to the Zone A water treatment plant, the water treatment plant and the concentrate discharge pipeline (to KUCC's tailings line) would initially be owned by KUCC, and operated by KUCC. This operation, likely to last five years, would allow for KUCC to gain operating experience, together with its industrial pretreatment process, and reach a point of stabilization in operational mode. The treated water (permeate) discharge pipeline to the JVWCD system would also initially be owned and operated by KUCC. After the five-year initial period, ownership, together with obligations to operate, maintain and replace the permeate discharge pipeline and RO treatment plant (for at least 45 years) would be transferred to JVWCD.

# 10.2 Zone B Facilities (for Deep Groundwater Extraction)

The facilities for extraction of approximately 4,200 AF to yield 3,500 AF of treated water would include extraction wells, collection pipelines, a reverse osmosis treatment plant at 1000 West 8300 South, a concentrate discharge pipeline to the KUCC tailings pipeline, and a discharge pipeline to the JVWCD system. Following construction and startup testing, ownership of these facilities would lie with JVWCD. JVWCD would commit to operate, maintain and replace these facilities for at least 50 years thereafter.

# 10.3 Zone B Facilities (for Jordan River/Shallow Groundwater Extraction)

These facilities will include four shallow extraction wells, collection pipelines, reverse osmosis and other membrane treatment facilities located in an enlarged treatment building (together with the Zone B deep groundwater treatment facilities) at 1000 West 8300 South, a concentrate pipeline extending to CVWRF or to SVWRF, and a discharge pipeline to the JVWCD treated water transmission system. Following initial construction and startup testing, ownership of these facilities would remain with JVWCD. JVWCD would then commit to operate, maintain and replace these facilities for at least 50 years.

# 11. ALLOCATION OF PROJECT BENEFITS

Under this project proposal, JVWCD will use its water rights to receive half of the 7,000 AF of principal aquifer treated groundwater. In addition, it will use its Utah Lake/Jordan River rights for shallow groundwater extraction and treatment. These treated waters will go to the benefit of all of the member agencies and customers of JVWCD (see Section 14 for further description of the rationale for this allocation).

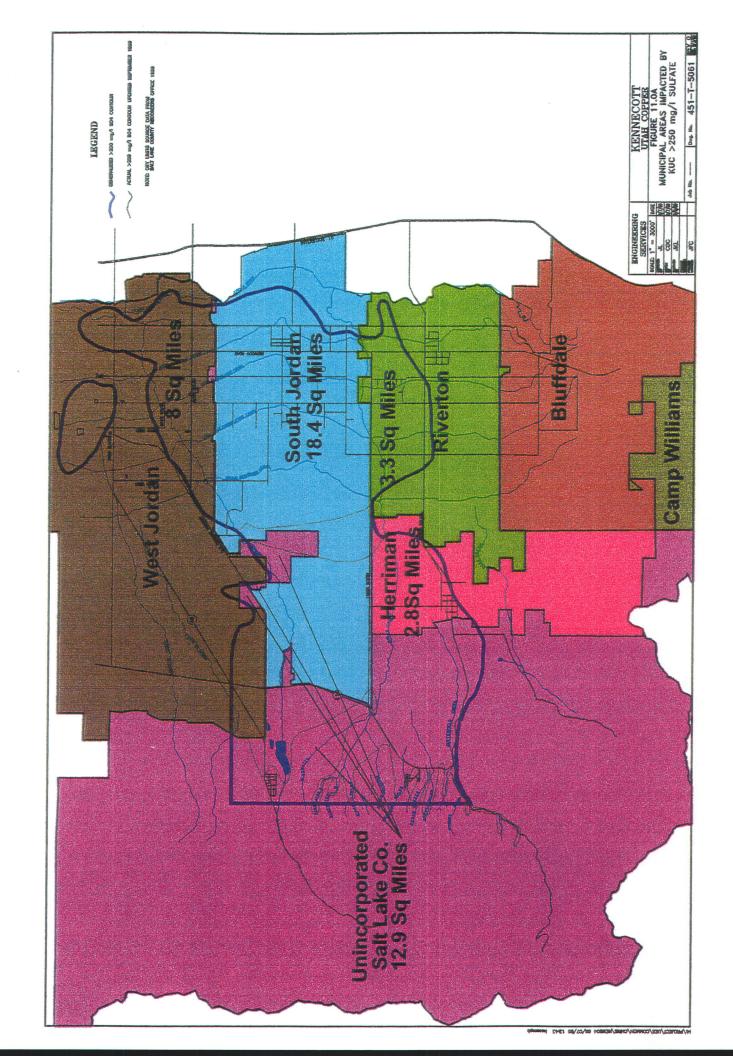
Half of the 7,000 AF of treated, principal aquifer groundwater, or 3,500 AF, will result from KUCC's rights shown in Section 7.3, that will be transferred to JVWCD and converted to municipal rights. The 3,500 AF of treated water that is produced in the Zone A facilities will be allocated by JVWCD to directly benefit the four incorporated communities in the Affected Area. These are: West Jordan City, South Jordan City, Herriman Town and Riverton City. Figure 11.0A shows the Affected Area as it compares with these four communities, as well as unincorporated Salt Lake County lands.

JVWCD has performed an analysis to derive the allocation of Zone A treated water benefits to the four communities. The factors considered in this evaluation were: total population of the affected municipalities, area of each city or town within the overall Affected Area, area of the cities and town within the Zone A Affected Area, and currently approved municipal groundwater rights in the principal aquifer within the overall Affected Area, and within the Zone A Affected Area. Tables 11.0A, 11.0B, 11.0C and 11.0D show methods 1-4 of comparing and evaluating these factors. The allocation percentages for methods 1-4 are summarized in Table 11.0E. A recommended allocation of Zone A treated water benefits is also shown in Table 11.0E. It is summarized in Table 11.0F.

Table 11.0F
Summary of Zone A Treated Water Allocations

| City/Town         | Allocation | Annual<br>Volume (AF) | Flow Rate<br>(mgd) |
|-------------------|------------|-----------------------|--------------------|
| West Jordan City  | 35%        | 1225                  | 1.2                |
| South Jordan City | 30%        | 1050                  | 1.0                |
| Riverton City     | 20%        | 700                   | 0.7                |
| Herriman Town     | 15%        | 525                   | 0.5                |

These four communities have variations in population and area involved in the Affected Area. Other than JVWCD's municipal water rights, only two currently approved municipal water rights, those of West Jordan City and Riverton City, lie within the Affected Area. Both of these lie at the extreme fringe areas, at the



**TABLE 11.0A** 

# SOUTHWEST EXTRACTION AND TREATMENT PROJECT OPTIONS FOR ALLOCATION OF ZONE A BENEFITS (METHOD 1)

(a) From West Jordan City planning estimate

10.8

50.1

159,123

(b) From South Jordan City Planning estimate

(c) Herriman estimate

(d) From State Office of Planning and Budget (e) See Table 11.0E, footnote (a)

TABLE 11.0B

# SOUTHWEST EXTRACTION AND TREATMENT PROJECT OPTIONS FOR ALLOCATION OF ZONE A BENEFITS (METHOD 2)

|              | Population Projection | Projection | Area in "Affected Area"<br>(Zones A and B) | a in "Affected Area"<br>(Zones A and B) | Approved Mu<br>Rights in "Af<br>(Zones A | Approved Municipal Water<br>Rights in "Affected Area"<br>(Zones A and B) | Combined |
|--------------|-----------------------|------------|--|---|--|--|----------|
| Entity       | (2003 Pop)            | (%)        | (Mi²)                                      | (%)                                     | (cfs)                                    | (%)  | Average  |
| West Jordan  | 79,235                | 20%        | 8.7  | 25%                                     | 1.0                                      | 44%  | 40%      |
| South Jordan | 37,000                | 23%        | 18.8                                       | 24%                                     |  | %0   | 25%      |
| Herriman     | 5,000                 | 3%         | 2.8  | %8                                      |  | %0   | 4%       |
| Riverton     | 37,888                | 24%        | 4.7  | 13%                                     | 1.25                                     | %99  | 31%      |
|              | 159,123               |            | 35.0                                       |   | 2.25                                     |  |          |

TABLE 11.0C

# SOUTHWEST EXTRACTION AND TREATMENT PROJECT OPTIONS FOR ALLOCATION OF ZONE A BENEFITS (METHOD 3)

|                 | Population Projection | Projection | Area in "Affected Area" | ected Area"<br>e A) | Approved Municipal water<br>Rights in "Affected Area"<br>(Zone A) | Approved Municipal Water Rights in "Affected Area" (Zone A) |          |
|-----------------|-----------------------|------------|-------------------------|---------------------|---|---|----------|
| . 4:4 - L       | (and book)            | (/0/       | (Mi <sup>2</sup> )      | (%)                 | · (sJJ)   | (%)   | Combined |
| Entity          | (ZOUS POP)            | (70)       | (IIVII)                 | (0/)                | (010)   | (ar)  | 65000    |
| West Jordan     | 79,235                | 20%        | 1.5                     | %6                  | •   | %0  | 20%      |
| South Jordan    | 37,000                | 23%        | 4.9                     | 30%                 | •   | %0  | 18%      |
| Herriman        | 2,000                 | 3%         | 2.8                     | 17%                 | •   | %0  | %2       |
| Riverton        | 37,888                | 24%        | 0.0                     | %0                  |   | %0  | %8       |
| SL County/JVWCD | (7)                   | 1          | 7.3                     | 41%                 | 5.0   | 100%  | 47%      |
|                 | 159,123               |            | 16.5                    |                     | 5.0   |   |          |

TABLE 11.0D

# SOUTHWEST EXTRACTION AND TREATMENT PROJECT OPTIONS FOR ALLOCATION OF ZONE A BENEFITS (METHOD 4)

|              | Population Projection | rojection | Area in "Affected Area"<br>(Zone A) | ected Area"<br>e A) | Approved Mu<br>Rights in "Af<br>(Zone | Approved Municipal Water<br>Rights in "Affected Area"<br>(Zones A) | Combined |
|--------------|-----------------------|-----------|-------------------------------------|---------------------|---------------------------------------|--|----------|
| Entity       | (2003 Pop)            | (%)       | (Mi²)                               | (%)                 | (cfs)                                 | (%)  | Average  |
| West Jordan  | 79,235                | %09       | 1.5                                 | 16%                 |                                       | %0   | 33%      |
| South Jordan | 37,000                | 23%       | 4.9                                 | 23%                 | •                                     | %0   | 38%      |
| Herriman     | 2,000                 | 3%        | 2.8                                 | 31%                 | •                                     | %0   | 17%      |
| Riverton     | 37,888                | 24%       | 0.0                                 | %0                  | 1                                     | %0   | 12%      |
|              | 159,123               |           | 9.2                                 |                     |                                       |  |          |

TABLE 11.0E

# SOUTHWEST EXTRACTION AND TREATMENT PROJECT **OPTIONS FOR ALLOCATION OF ZONE A BENEFITS**

# Allocation by Various Methods

|                         | Zones /  | Zones A and B | Zone A            | A e      | Overall           | Proposed   |
|-------------------------|----------|---------------|-------------------|----------|-------------------|--|
| Entity                  | Method 1 | Method 2      | Method 3 Method 4 | Method 4 | Average           | Allocation   |
| West Jordan             | 25%      | 40%           | 20%               | 33%      | 29.5%             | 35%  |
| South Jordan            | 20%      | 25%           | 18%               | 38%      | 24.5%             | 30%  |
| Herriman <sup>(a)</sup> | 3%       | 4%            | %2                | 17%      | 8% <sup>(a)</sup> | 15%  |
| Riverton                | 15%      | 31%           | %8                | 12%      | 17%               | 20%  |
| SL County/JVWCD         | 37%      | •             | 47%               | •        | 21%               |  |
|                         |          |               |                   |          |                   | odt di dollar de de la |

(a) This assumes current Herriman Town boundaries. However, a substantial westward annexation of Herriman is imminent. After such an annexation, with 5.6 square miles in the Affected Area, the "Overall Combined Averages" would be:
• West Jordan - 29%
• South Jordan - 24%

- Herriman 10% Riverton 17% SL County/JVWCD 20%

northeast and southern edges. KUCC and JVWCD do not desire to require capital and operating cost contributions from these municipalities.

Therefore, JVWCD proposes to provide benefits from treated water resulting from Zone A facilities to the four affected municipalities by providing guaranteed treated water deliveries with greatly reduced water rates. JVWCD would accomplish this by providing this water to the four communities at less than its base wholesale rate, without surcharges for pumping or peaking. In spite of no pumping charges, this water would be provided at a storage elevation of 5,150 feet above sea level, in the pressure Zone C that normally includes high pumping surcharges.

To give an example, the 1999 wholesale water rates for pressure Zones B and C to West Jordan City, Riverton City and South Jordan City are:

- West Jordan City: \$290.73/AF (pressure Zone C)
- Riverton City: \$307.70/AF (pressure Zone C)
- South Jordan City: \$290.90/AF (pressure Zone B)

In contrast, the 1999 JVWCD rate offered to the four affected municipalities would be as shown in Table 11.0G.

# Table 11.0G JVWCD Water Rate for Zone A Water

| Re | duced JVWCD Water Rate (1999) for Zone A Water                                      | Unit Cost (\$/AF) |
|----|---|-------------------|
|    | JVWCD base wholesale rate (without pumping or peaking surcharges)                   | \$239.22/AF       |
| •  | Less JVWCD average water source unit cost   | (\$142.49/AF)     |
|    | Less JVWCD 1999 weighted surface water<br>treatment/wells O&M unit cost             | (\$34.62/AF)      |
|    | Plus JVWCD "avoided operating cost", as described in section 8.5                    | \$55.15/AF        |
|    | Plus JVWCD additional O, M&R cost to reduce TDS to 250 mg/L (Zones A and B average) | \$25.56/AF        |
|    | Plus JVWCD's amortized capital contribution to the NRD project <sup>(a)</sup>       | \$59.80/AF        |
|    | Net 1999 Water Rate:  | \$202.62/AF       |
|    | Actual 1999 Riverton City Pumped Water Rate:  | \$307.70/AF       |
| A  | ctual 1999 South Jordan City Pumped Water Rate:                                     | \$290.90/AF       |
|    | Actual 1999 West Jordan City Pumped Water Rate:                                     | \$290.73/AF       |

# Notes:

(a) \$4.8 million amortized at 6%, 20 years.

The treated Zone A water would be made available at this reduced rate, as calculated each year under the JVWCD water rate formulas and water rate study, by execution of water purchase agreements with the four communities. This rate would remain in effect for 50 years.

KUCC and JVWCD met with city manager, technical staff and mayors of the four communities during September and October of 1999. Upon invitation by the communities, KUCC, JVWCD and city staff made presentations to the councils of West Jordan City, South Jordan City and Herriman Town during November.

The Herriman town counsel and the South Jordan City counsel voted to endorse the project during those meetings. Enclosed in Appendix E are the letter of endorsement from Herriman and the minutes from the South Jordan City counsel meeting. Riverton City and West Jordan City have also expressed support. Letters of support from these cities will be forwarded as they are received.

# 12. SCHEDULE; DESIGN AND CONSTRUCTION; FACILITIES OWNERSHIP

# 12.1 Proposed Project Schedule

Section 10 of the CDM conceptual design report recommends a schedule for pilot testing, design, construction, and startup/testing. The following Table 12.1A summarizes this schedule, together with the proposed schedule for approvals of this project and transfer of Trust Fund balances to JVWCD and/or KUCC, assuming the Proposal is approved by the Trustee.

Not comprete

# TABLE 12.1A Proposed Project Schedule

| Activity  | Completed By                   | Transfer of Trust Funds, Facilities and Water Rights  |
|---|--------------------------------|---|
| State Trustee and staff evaluation  | March 2000                     |   |
| EPA Remedial Project Manager evaluation of proposal                           | March 2000                     |   |
| State Engineer evaluation of proposal   | March 2000                     |   |
| State and federal public hearings   | June 2000                      |   |
| Land purchases by KUCC and JVWCD  | July 2000                      | Cost of land transferred to reimburse KUCC/JVWCD  |
| Trustee approval of project proposal  | September 2000                 |   |
| EPA Record of Decision  | September 2000                 |   |
| State Engineer change application approvals                                   | September 2000                 | Transfer remainder of<br>Trust Fund to JVWCD/<br>KUCC   |
| Pilot testing - Zone A - Zone B   | December 1999<br>February 2001 |   |
| Preliminary design  | March 2001                     |   |
| Final design  | December 2001                  |   |
| Division of Drinking Water approval   | January 2002                   |   |
| Award construction contracts  | February 2002                  |   |
| Complete construction   | September 2003                 |   |
| Startup, testing, begin operation   | December 2003                  |   |
| KUCC completes Zone A treatment plant operation, after process has stabilized | 2008-2009                      | KUCC transfers ownership<br>of plant and water rights,<br>and operation of plant, to<br>JVWCD |

# 12.2 Design

The design work would be performed by, or commissioned and managed by, the parties shown in Table 12.2A, with oversight from UDEQ and USEPA:

# **TABLE 12.2A**

| Project Component  | Designed By                        |
|--|------------------------------------|
| Zone A Extraction Wells                                    | (existing)                         |
| Zone A Water Treatment Plant                               | KUCC (in collaboration with JVWCD) |
| Zone A Concentrate Pipeline                                | KUCC                               |
| Zone A Treated Water Discharge<br>Pipeline                 | JVWCD or KUCC                      |
| Zone B Deep Extraction Wells                               | JVWCD (in collaboration with KUCC) |
| Zone B Shallow Wells                                       | JVWCD                              |
| Zone B Water Treatment Plant                               | JVWCD (in collaboration with KUCC) |
| Zone B Concentrate Discharge Pipeline for Deep Groundwater | KUCC/JVWCD                         |
| Shallow Groundwater Concentrate Discharge Pipeline         | JVWCD                              |
| Zone B Treated Water Discharge Pipeline                    | JVWCD                              |

# 12.3 Construction

Construction would be performed, by contracting directly with construction contractors, by the same parties that performed the design work shown in Table 12.2A. Startup, testing and beginning operation would be performed by the same parties.

# 12.4 Facilities Ownership

Ownership of facilities would be as shown in Table 12.4A.

# TABLE 12.4A Ownership of Facilities for Proposed Project

| Project Component  | Owned By  |
|--|---|
| Zone A Extraction Wells  | KUCC  |
| Zone A Water Treatment Plant   | KUCC (transferred to JVWCD after approximately 5 years) |
| Zone A Concentrate Pipeline  | KUCC  |
| Zone A Treated Water Discharge Pipeline  | JVWCD   |
| Zone B Deep Extraction Wells   | JVWCD   |
| Zone B Shallow Wells   | JVWCD   |
| Zone B Water Treatment Plant   | JVWCD   |
| Zone B Concentrate Discharge<br>Pipeline for Deep Groundwater (to<br>KUCC property line) | JVWCD   |
| Shallow Groundwater Concentrate Discharge Pipeline                                       | JVWCD   |
| Zone B Treated Water Discharge Pipeline  | JVWCD   |

# 13. LIABILITY AND AGREEMENTS

# 13.1 Liability

KUCC has certain CERCLA liability in remedial actions for contaminated groundwater. JVWCD has no CERCLA liability. KUCC will not transfer any CERCLA liability to JVWCD. JVWCD desires agreements with USEPA and the State of Utah that hold JVWCD harmless from third party claims and USEPA/UDEQ claims for environmental liabilities. In addition to this agreement, KUCC will hold JVWCD harmless from CERCLA liability or other environmental liabilities resulting from JVWCD's operation of project facilities, except from its own negligent actions.

# 13.2 Proposed KUCC/JVWCD Agreements With State of Utah and USEPA

KUCC and JVWCD propose to enter into an agreement with the State, by and through the NRD Trustee, to transfer Trust Fund amounts to KUCC and JVWCD in exchange for the KUCC and JVWCD agreement to construct and operate the proposed facilities to provide municipal quality water. KUCC would agree to continue operation of its acid plume well, its sulfate extraction well, extraction wells 1193 and 109, a pretreatment/management process for feedwater to the Zone A treatment plant to maintain the sulfate concentration below 1,200 mg/L, and to operate the Zone A treatment plant for approximately five years to reach a stabilization in treatment process. Subject to the ability to implement an alternative contingency plan, KUCC will make its tailings pipeline available for conveyance of concentrate from the Zones A and B treatment plants.

Under the proposed agreement JVWCD would agree to operate the Zone A treatment plant (after KUCC's five years of initial operation, and subject to the on-going feasibility of the Zone A project), the Zone A pipeline, and the Zone B facilities, for at least 50 years. JVWCD would maintain, repair and replace these facilities for 50 years. JVWCD would agree to make treated water available to the public, as previously described in this proposal.

JVWCD seeks an agreement with USEPA to provide a liability release and third party protection from claims under CERCLA. The State of Utah and KUCC will be approving parties to this agreement. The agreement will describe the proposed project, and endorse its concept. JVWCD will seek a similar agreement with the State for protection from claims under comparable State law.

Because KUCC's life of operations is not currently anticipated to extend beyond 2030, the project proposal contemplates that a new concentrate discharge pipeline may need to be extended to a receiving water body, rather than to KUCC's tailings pond. Given the underlying assumptions in the NRD Consent Decree, it is anticipated that UDEQ will reasonably cooperate in permitting issues to allow for concentrate disposal, whether prior to or after 2030, as necessary.

# 13.3 Proposed KUCC/JVWCD Agreement

Assuming this Proposal is approved by the NRD Trustee, KUCC and JVWCD proposed to enter into an agreement to govern the relationship between KUCC and JVWCD during the operational period and effectuate the components of the Proposal. A draft of the proposed agreement will be provided to the NRD Trustee in the near future.

# 14. ZONES A AND B RATIONALE

## 14.1 Zone A

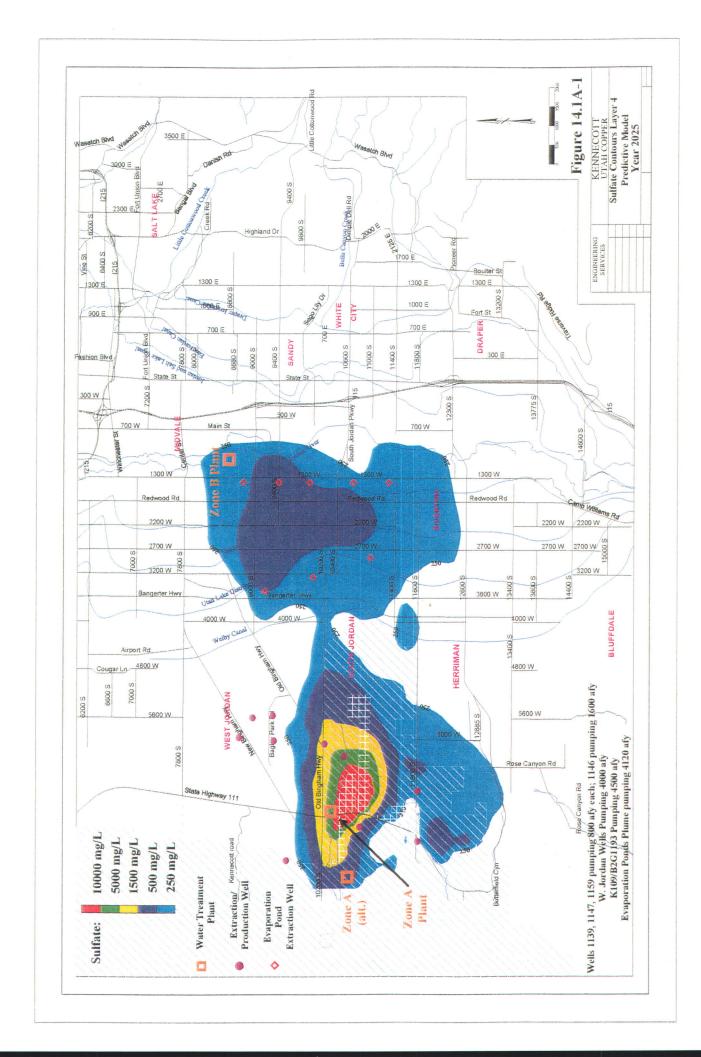
The groundwater in Zone A contains both elevated sulfate (NRD) and acid (CERCLA) contamination, with sulfate concentrations mainly above 1500 mg/L and acidic water containing elevated heavy metal concentrations. KUCC has designed a hydraulic containment system to contain and extract the acid groundwater plume and the elevated sulfate plume as detailed below.

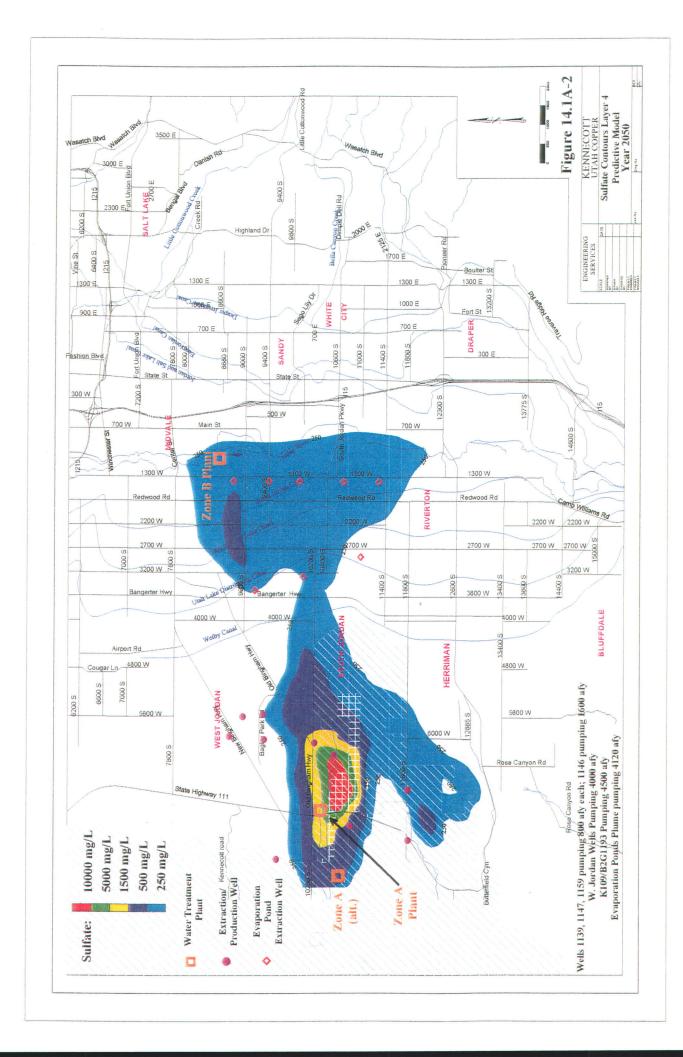
The containment system will consist of acid extraction well(s) in the core of the acidic plume, and sulfate barrier wells constructed in the area near KUCC wells K60 and K109. The extracted water would be treated by two membrane-filtration plants on KUCC property. Concentrate reject from treatment would be placed in the KUCC tailings line or used in the KUCC mineral processing circuit. (An alternative approach will have to be developed if this plan for managing concentrate streams becomes infeasible.) Figure 14.1A shows the potential layout of the extraction wells, the possible location of the treatment plants, and the model-computed distribution of sulfate concentrations in 2025 and 2050 based on this scenario.

The sulfate plume would be pumped at 3000 gpm and the acid plume at 1000 gpm. The total extraction rate of 4000 gpm is approximately the sustained yield of the principal aquifer in the Bingham Creek area. The pumping rate of the acid plume is above the rate required by the NRD Consent Decree (250 gpm or 400 AF/yr average over a five-year period) in order to remove the main mass of the acid plume in 30 years and extend the time in which the sulfate containment system can extract sulfate at levels below 2000 mg/L. The 1000 gpm extracted from the acid plume would be sent to a nanofiltration (NF) plant for pretreatment, and the permeate from the NF plant (about 400 gpm) would be added to the stream of extracted sulfate groundwater and sent to the RO treatment facility.

The total extraction of 3000 gpm from the extraction wells plus the NF permeate has been modeled to yield 3500 AF/year of municipal quality water after RO treatment. The RO/NF concentrate and a small amount of RO lime-treatment sludge would be sent directly to KUCC's tailings line and then to KUCC's tailings impoundment for disposal (Table 5.6A).

KUCC will utilize its existing industrial groundwater rights (which it plans to convert to municipal water rights) to extract groundwater from this zone for treatment and will deliver 3500 AF/year of treated, deep groundwater to the JVWCD, who will make the water available to the cities of Riverton, South





Jordan and West Jordan and the Town of Herriman. If necessary, KUCC also will provide blend water from other operational facilities (mine tunnels and dewatering, clean water wells, and storm water collection systems) to ensure that the Zone A RO plant can produce 3500 AF/year of clean water for at least 50 years and beyond.

The rationale for JVWCD receiving and distributing these waters is as follows:

- a. JVWCD owns all of the currently approved municipal groundwater rights in Zone A.
- b. The Consent Decree requires that the public in the Affected Area receive benefits from the Trust Fund.
- c. JVWCD has existing infrastructure to distribute Zone A water to the four affected communities. This provides an efficiency and economy of scale to the proposed project.
- d. JVWCD's existing infrastructure will allow the public in the Affected Area to obtain the benefits of the Trust Fund and the M&I water.
- e. JVWCD has current wholesale water delivery contracts and relationships with West Jordan, South Jordan and Riverton Cities (see Table 14.1A). JVWCD serves retail connections in Herriman, and has held discussions with Herriman Town regarding near future wholesale water deliveries from the District.
- f. JVWCD has the expertise and staff to operate and maintain Zone A facilities in an efficient manner.

Table 14.1A

JVWCD Water Purchase Contracts With Affected Communities

Minimum Annual Water Purchase Contract

395

395

 Customer
 1999
 2000
 2001 and thereafter

 South Jordan City
 7625
 8175
 8675

 West Jordan City
 8400
 8400
 8400

395

Riverton City

## 14.2 Zone B

The groundwater in Zone B is the majority of the "sulfate plume," with sulfate concentrations lower than those in Zone A. This is the plume generally dealt with by the NRD Consent Decree. JVWCD will utilize its existing municipal groundwater rights in the Affected Area to extract principal aquifer groundwater for treatment, will receive the 3,500 AF/year of treated, deep groundwater, and will make that water available to all of its member agencies, including the four "affected communities". JVWCD will utilize its own Utah Lake/Jordan River rights for shallow groundwater extraction, and will make that treated water available to its member agencies.

The basis for JVWCD treating and delivering these waters, and making them available to all of its member agencies, includes the following issues:

- a. JVWCD has 79 percent of the currently approved municipal groundwater rights in the Affected Area.
- b. These JVWCD groundwater rights are assets that belong to all of the member agencies of JVWCD throughout Salt Lake County.
- c. JVWCD has the infrastructure existing to convey Zone B treated groundwater throughout Salt Lake County to benefit the member agencies who jointly own the JVWCD municipal groundwater rights. These member agencies have paid for the construction of infrastructure to serve Zones A and B.
- d. JVWCD has contributed valuable information and guidance throughout the period of Consent Decree negotiation and technical review oversight of the RI/FS process.
- e. JVWCD is willing to utilize its Utah Lake/Jordan River rights to accomplish the Trust Fund purpose of "replace, restore or provide the equivalent" of the groundwater from the Affected Area lost as concentrate streams from membrane treatment processes in both Zones A and B.
- f. JVWCD has the expertise and staff to operate and maintain project facilities in an efficient manner.
- g. West Jordan, South Jordan and Riverton Cities are member agencies of JVWCD, and can receive Zone B water. Herriman is served retail water service by JVWCD.

# 15. MEETING INTENT OF NRD CONSENT DECREE

The following table summarizes the intent of the NRD Consent Decree and delineates the features of this proposal that meet this intent.

# **TABLE 15.0A**

| Actions   | CD<br>Sect. | Response                       | Date | Meets<br>Intent | Comments   |
|---|-------------|--------------------------------|------|-----------------|--|
| RI/FS   | V.A.        | Completed by KUCC              | 1998 | Yes             | Reviewed and approved by EPA and TRC; ROD to be issued in 2000.  |
| Acid Well   | V.B.        | Completed by KUCC              | 1997 | Yes             | Currently 1100 AF pumped. Meets pumping criteria.  |
| Source Control  | V.C.        | Completed by KUCC              | 1997 | Yes             | Eastside Collection system permitted under UGWDP.  |
| Trust Fund  | V.D.1       | Paid by<br>KUCC                | 1995 | Yes             | \$9 million cash and Trust Fund established.   |
| Restoration of aquifer, including solid phase contamination | V.D.1       | Extraction of sulfate and acid | 1997 | Yes             | Installed sulfate and acid wells have removed 58,000 tons of sulfate since August 1997; this proposal will continue process perpetually. |
| Replace water   | V.D.1       | This proposal                  | 2003 | Yes             | Will produce more than 7000 AF of water annually from Affected Area; and will produce 2300 AF to replace lost concentrate.               |
| Acquire equivalent  | V.D.1       | N/A                            | N/A  | N/A             | Not necessary; restoration and replacement provide sufficient water.   |
| Treatment   | V.D.2b      | This proposal                  | 2003 | Yes             | Treatment system described.  |
|   |             |                                |      |                 |  |
| Accepted bu M&I<br>Purveyor                                 | V.D.2bi     | This proposal                  | 2003 | Yes             | Water to be accepted by JVWCD, a purveyor of M&I water, with municipal water rights.   |

# **TABLE 15.0A**

| Actions   | CD<br>Sect. | Response      | Date          | Meets<br>Intent | Comments   |
|---|-------------|---------------|---------------|-----------------|--|
| Prevent and<br>Replace Spread<br>of Contamination                                     | V.D.2bii    | This proposal | 2003-<br>2053 | yes             | See section 6.3 of proposal.   |
| Substantially water supply for 40 years   | V.D.2biii   | This proposal | 2003-<br>2043 | Yes             | See section 6.1 of proposal.   |
| Does not<br>materially<br>increase unit cost<br>to produce<br>remainder of<br>7000 AF | V.D.2biv    | This proposal | 2003          | Yes             | This proposal will produce all of<br>the 7000 AF, within the trust<br>fund amount.                         |
| Alternative<br>Sources  | V.D.2d      | N/A           | N/A           | N/A             | Under this proposal alternative sources are not required to meet the terms of the Consent Decree.          |
| Water quality   | V.D.2f      | This proposal | 2003          | Yes             | Highest quality (500 TDS) guaranteed.  |
| Water quantity  | V.D.2f      | This proposal | 2003          | Yes             | More drinking water than required under Consent Decree; more than offsets Lost Use.                        |
| Beneficial Use  | V.D.5       | This proposal | 2003          | Yes             | JVWCD agencies benefit; specifically those in affected area. KUCC water rights converted to municipal use. |

Table 15.0B compares Trust Fund with proposed project costs.

# 16. MEETING EPA/CERCLA REQUIREMENTS

The proposed NRD response combines containment, restoration and beneficial use of the entire Affected Area of the NRD settlement with the response actions proposed as Alternative V under the CERCLA RI/FS for Zone A. Following EPA guidelines, the FS delineates the acceptability of Alternative V as follows (text modified from 1998 FS report).

Table 15.0B **Groundwater Extraction and Treatment System** Comparison of Trust Fund Costs and CDM Estimated Costs

| Letter of Credit (7 Percent)                     | Т             | RUST FUND V   | ALUES            | 10% Contigency CDM Estimate | 40% Contigency CDM Estimate | 10% Contingency<br>Estimate <sup>(c)</sup> |
|--|---------------|---------------|------------------|-----------------------------|-----------------------------|--|
| Cost of Treatment                                | 1995 Costs    | 1999 Costs    | 2000 Costs       | 1999 Costs                  | 1999 Costs                  | 2000 Costs                                 |
|  |               |               |                  |                             |                             |  |
| Capital Costs                                    | 6,343,000     | 8,314,400     | 8,896,690        | 9.962.593                   | 9,962,593                   | 10,261,470                                 |
| Treatment Plant (8235 ac-ft/yr inflow)           |               | 55,050        | 58,910           | 403.000                     | 403,000                     | 415,090                                    |
| Treated Water Discharge                          | 42,000        | 3,400,220     | 3,638,340        | 1,832,000                   | 1.832,000                   | 1,886,960                                  |
| Brine Discharge                                  | 2,594,000     | 1,177,100     | 1.259.530        | 4,832,176                   | 5,929,960                   | 4,977,140                                  |
| Engineering Costs                                | 898,000       |               | 305,770          | 4,032,170                   | 0                           | 0  |
| Pipeline Easements                               | 218,000       | 285,750       |                  | 3.909,659                   | 7,568,937                   | 4,026,950                                  |
| Contingency Costs                                | 1,009,000     | 1,322,600     | 1,415,220        | 3,909,009                   | 7,000,00                    |  |
| Subtotal Capital Costs                           | 11,121,782    | 14,578,430    | 15,599,410       | 20,939,428                  | 25,696,490                  | 21,567,610                                 |
| Operations & Maintenance Present Value           | \$ 15,336,079 | 20,102,530    | 21,510,380       | 19,852,772                  | 19,852,772                  | 20,448,360                                 |
|  | \$ 0          | 0             | 0                | (4,734,000) <sup>(b)</sup>  | (4,734,000) <sup>(b)</sup>  | (4,876,020)                                |
|  | \$ 1,547,632  | 2,028,640     | 2,170,710        | 1,903,233                   | 2,313,212                   | 1,960,330                                  |
| Total of original \$28 million letter of credit  | \$ 28,000,000 | \$ 36,709,600 | \$ 39,280,500    | \$ 37,961,433               | \$ 43,128,474               | \$ 39,100,280                              |
| Cash Value Payment (5 Percent)                   |               |               |                  |                             |                             |  |
| Cost of Extraction                               |               |               |                  |                             | 0.400.000                   | 0.004.000                                  |
| Extraction Wells                                 | \$ 2,665,000  | \$ 3,239,310  |                  | 2,160,000                   | 2,160,000                   | 2,224,800                                  |
| Engineering Costs                                | \$ 469,000    | \$ 570,070    |                  | 712,800                     | 907,200                     | 734,180                                    |
| Contingency Costs                                | \$ 266,000    | \$ 323,320    |                  | 216,000                     | 864,000                     | 222,480                                    |
| Total  | \$ 3,400,000  | \$ 4,132,700  | \$ 4,339,420     | 3,088,800                   | 3,931,200                   | 3,181,460                                  |
| Collection Pipelines                             | \$ 2,296,020  | \$ 2,790,810  | \$ 2,930,410     | 2,644,000                   | 2,644,000                   | 2,723,320                                  |
| Engineering Costs                                | \$ 459,204    |               |                  | 872,520                     | 1,110,480                   | 898,700                                    |
| Contingency Costs                                | \$ 344,776    |               |                  | 264,400                     | 1,057,600                   | 272,330                                    |
| Total  |               | \$ 3,768,050  |                  | 3,780,920                   | 4,812,080                   | 3,894,350                                  |
| Contact Development without Contamination        | (\$3,500,000) | \$ (4,254,250 | ) \$ (4,467,050) | (2,801,000) (*)             | (b) (2,801,000) (a)         | (b) (2,885,030)                            |
| Cost of Development without Contamination Total  |               |               |                  | \$ 4,068,720                | \$ 5,942,280                | \$ 4,190,780                               |
| Lost Use   |               |               |                  |                             |                             |  |
| Cost of lost use                                 | \$ 5,500,000  |               |                  |                             |                             | 7.540.040                                  |
| Shallow Well Contingency, Engineering, Constr.   | \$ 0          | \$ 0          |                  | 7,323,598                   | 9,041,368                   | 7,543,310                                  |
| Total  | \$ 5,500,000  | \$ 6,685,250  | \$ 7,019,650     | \$ 7,323,598                | \$ 9,041,368                | \$ 7,543,310                               |
| Management of Assets                             | \$ 500,000    | \$ 607,750    | \$ 638,150       | \$ 638,000 (a)              | (e) \$ 638,000 (a)          | (e) 657,140                                |
| Total of original \$9 million cash value payment | \$ 9,000,000  | \$ 10,939,500 | \$ 11,486,700    | \$ 12,030,318               | \$ 15,621,648               | \$ 12,391,230                              |
| Total Consent Decree Amounts                     | \$ 37,000,000 | \$ 47,649,100 | \$ 50,767,200    | \$ 49,991,751               | \$ 58,750,122               | \$ 51,491,510                              |
| Plus JVWCD Process Enhancements Total            |               |               |                  | \$ 8,253,942                | \$ 8,888,211                |  |
| Grand Total                                      |               |               |                  | \$ 58,245,693               | \$ 67,638,333               |  |

Notes:
(a) JVWCD estimates (1999)
(b) Avoided cost contribution by JVWCD
(c) JVWCD/KUCC estimates by increasing 1999 CDM estimates by 3%
(d) Funds to be used by Trustee

**Description.** Alternative V includes hydraulic containment of sulfate and acid, active restoration of the acid portion of the plume, extraction and restoration of the elevated sulfate plume in Zone A, membrane treatment of extracted groundwater, and delivery of concentrate to the KUCC tailings impoundment. Active pumping of the acid plume also would protect the sulfate barrier well system and RO treatment plant from being compromised by acid water.

Overall Protection of Human Health and the Environment. Alternative V provides overall protectiveness of human health and the environment by eliminating human or ecological exposure pathways to contaminants through institutional controls, point-of-use management, and containment of groundwater having contaminant concentrations above levels of concern, and by actively attempting to restore groundwater in the plume. Delivery of the acid groundwater directly to the tailings line would result in neutralization of acidic groundwater and precipitation of associated contaminants in a contained impoundment and should not represent a human or environmental hazard.

Compliance with Potential ARARs¹. Alternative V would comply with ARARs. A key component of Alternative V is hydraulic containment of the acid plume, which will prevent this contaminated groundwater from affecting down gradient drinking water wells. Under this alternative, the acid plume effectively becomes a waste management unit such that the appropriate "point of compliance" for measuring compliance with ARARs is at and beyond the edge of the containment area. At the point of compliance, all levels of concern for pH and metals would be met immediately. Modeling indicates that, for sulfate, natural attenuation would achieve the PRG of 1,500 mg/L² outside the containment area within approximately 5 to 10 years and the Utah drinking water standard (500 mg/L) in approximately 20 to 40 years. Institutional controls using the point-of-use level of 500 mg/L will be applied to prevent the ingestion of groundwater exceeding this concentration down gradient of the 1,500 mg/L sulfate barrier well system.

RO/NF concentrate will be delivered to the KUCC tailings impoundment. The concentrate would consist of the byproduct of treated groundwater contaminated by former mining practices and should not be subject to the zero discharge

<sup>&</sup>lt;sup>1</sup> Applicable or relevant and appropriate requirements.

<sup>&</sup>lt;sup>2</sup> There are no clear cleanup standard ARARs for sulfate or TDS under the Utah groundwater corrective action regulations. The presumptive standards for groundwater Corrective Action Concentration Limits (CACLs) are the Utah groundwater quality standards (UAC R317-6-6.15.F); however, there is no such groundwater quality standard for sulfate or TDS (UAC R317-6-2). Where there is no groundwater quality standard for a particular contaminant, CACL is proposed taking into consideration federal MCLGs, health advisories, risk-based contaminant levels or standards established by other regulatory agencies and other relevant information. An Alternate Corrective Action Concentration Limit (ACACL) can be established in place of a CACL if it is protective of human health and the environment and utilizes best available technology. In this case, the health based Preliminary Remediation Goal ("PRG") for sulfate is 1,500 mg/L.

limitations for process wastewater applicable to active mining operations. See 48 Fed. Reg. 7953 (Feb. 8, 1979). Discharges from the tailings impoundment would, however, need to comply with established UPDES permit limits. Alternatively, if the zero discharge limitations were deemed applicable to the delivery option, the associated discharge would qualify for the "equivalent standard of performance" ARARs waiver. Specifically, in accordance with the combined waste stream rule, the volume of effluent recycled from the tailings impoundment would establish compliance with the zero discharge limitations. See 40 C.F.R. § 440.131(a) (1996). In addition, delivery of RO/NF concentrate to the tailings impoundment would require compliance with groundwater protection requirements.

Long-Term Effectiveness and Permanence. Alternative V provides long-term effectiveness and permanence by eliminating exposure to contaminated groundwater, by controlling the migration of the acid portion of the plume, and by actively extracting acidic groundwater from the principal aquifer. For some proposed PRGs, the remediation time frame may still be longer than the 30 years. For these reasons, long-term management of the site will be required, and would consist of periodic maintenance of the groundwater extraction wells, groundwater compliance monitoring (for all repositories and the hydraulic containment systems), and operation and maintenance of the water treatment system, all of which will be implemented under this proposal.

Discharge of the NF concentrate or acidic groundwater to the KUCC tailings line may result in increased total dissolved solids in the process system, and will need to be considered in view of operational or permit requirements. Recent studies by KUCC suggest that the level of discharge proposed in this response will not adversely affect KUCC operations and will meet UPDES discharge requirements.

Reduction of Toxicity, Mobility and Volume Through Treatment. Alternative V reduces TMV by extracting and treating and (or) discharging contaminated groundwater. Hydraulic containment, although not designed to actively remediate the plume, will permanently reduce the toxicity and volume of the plume and will prevent the portion of the plume currently above PRGs from migrating farther down gradient.

Extraction of acid groundwater followed by delivery to the tailings line would permanently and significantly reduce the volume (and mass) of contaminants in the groundwater through neutralization reactions.

**Short-Term Effectiveness.** Implementation of Alternative V is not expected to result in any serious potential risks for remedial action workers or the community during construction. All construction work (drilling and well installation, pipeline construction, water treatment plant construction) would be conducted following standard health and safety practices associated with each of these activities. If necessary, dust suppression may be employed during construction of the water

treatment plant. The Remediation Action Objectives of preventing human and ecological exposure to contaminated groundwater above PRGs would be achieved by institutional controls, point-of-use management of groundwater above these levels, and hydraulic containment, that prevents the migration of the acid plume beyond the containment boundary.

**Implementability.** Alternative V can be implemented technically, but the disposal option will require meeting substantive requirements of permits. Obtaining approval for these new facilities should be possible but may be untimely in relation to construction of the groundwater extraction and water treatment plant. Approval of new facilities under the NRD settlement will require coordination between the State, KUCC and non-KUCC parties.

### APPENDIX A

# **Groundwater Modeling**

Flow Model. KUCC developed a groundwater model of the southwestern Jordan Valley (SWJV) as part of the RI/FS to analyze flow paths and groundwater velocities in the principal aquifer and to evaluate remedial options. The model area extends from the bedrock/alluvial interface at the base of the Oquirrh Mountains on the west, to the bedrock/alluvial interface at the base of the Wasatch Mountains on the east, and from approximately 6000 South on the north to the base of the Traverse Mountains on the south. The model has eight sloping layers ranging in thickness from 100 to 400 feet. The model uses a three-dimensional, finite difference, numerical code called MODFLOW (McDonald and Harbaugh 1988) with a typical elemental size of 500 by 500 feet. This code is internationally accepted and was used for the Salt Lake Valley Regional Groundwater Flow Model developed by the United States Geological Survey (Lambert 1995).

Recharge to the principal and shallow unconfined aquifers comes from precipitation, bedrock aquifer, irrigation canals, irrigated fields, lawns and gardens, stream and channel fill, and reservoirs and evaporation ponds.

Water loss comes from well extraction, evapotranspiration and removal at head-dependent boundaries.

The model was calibrated for both steady and transient states. The steady state simulated hydrologic conditions in 1965. The transient state simulated the period between 1966 and 1998 and included annual stress periods. Calibration variables were adjusted within reasonable ranges, as determined from data collected by the RI and other work. KUCC considered the calibration process to be successful when a reasonable match was made between observed and modeled conditions for the years being simulated.

The calibrated transient model closely simulated observed water level declines and vertical hydraulic gradients throughout the SWJV, yielded reasonable groundwater flow to the Jordan River, and accurately computed flows through the northern boundary.

Transport Model. KUCC's calibrated groundwater flow model was then coupled with a contaminant transport code, MT3D, to model historical and future migration of storm and mine waste water that leaked from the former Bingham Creek reservoir. Transport models attempt to combine groundwater flow with the physical aspects of contaminant transport, including advection, dispersion and chemical reactions. Although a flow model can provide information about contaminant migration through the use of particle tracking techniques, these techniques do not provide information about the concentration of a contaminant at a given point in time and space. Transport modeling is different from particle tracking because it considers dispersion and the effects of chemical reactions and produces a three-dimensional distribution of concentrations with time. The KUCC transport model report is presented in the 1998 South End Groundwater RI, Appendix G.

The transport model was calibrated to observed 1996-1997 sulfate concentrations down gradient of the former Bingham Creek reservoirs. Calibration was achieved by finding a set of transport parameters (i.e., retardation, dispersivity and porosity) within an accepted range that reasonably reproduced field-measured concentrations. The large amount of data available for calibration provided good control for the rate and direction of plume movement. For example, the transport model was able to reproduce the southeast component of the sulfate plume geometry. The model was then expanded to include the sulfate contamination near the former KUCC evaporation ponds.

The transport model uses the following parameters for simulation and calibration:

- Specified concentration cells on the western and southern boundaries to simulate alluvial underflow and flow from the bedrock aquifer to the principal aquifer.
- Specified concentrations for the Large Bingham Creek Reservoir from 1965 to 1991, and for infiltration from precipitation.
- Retardation of sulfate, that was varied as a function of sulfate concentration, and constant porosity, were used for all layers.

The transport model is an approximation of the field environment. Many of the transport parameters are not known absolutely, and change in any of them can affect the results. Other limitations almost certainly include local, but significant variations in the hydrogeology of the principal aquifer, uncertainties in the flow model and boundary conditions, density dependent flow, and the lack of modeling of geochemical reactions, particularly neutralization. However, geochemical reactions are partially mimicked in the transport model through the use of the retardation factor. Nevertheless, the model is probably a reasonable first approximation of the kinematics of the Bingham Creek and former evaporation ponds plumes and allows the feasibility of various remedial strategies to be tested.

## APPENDIX B

# Hydrogeology

**Groundwater Recharge.** The principal aquifer is recharged from surface infiltration of precipitation, irrigation water and canal water, bedrock inflow, and to a limited extent from surface infiltration of waters emanating from Butterfield Creek. The bedrock of the Oquirrh Mountains provides recharge to the groundwater in the western part of the SWJV, and this groundwater then travels eastward into the basin. Aquifer recharge is greater in the eastern part of the SWJV and in the Herriman area due to recharge from surface water.

Groundwater Extraction. Most of the water extracted from the principal aquifer is used for municipal or industrial purposes. The largest extractions in the study area, in or near the Affected Area, are from the West Jordan and Riverton city well fields and KUCC process water wells. West Jordan City extracted an average of 6,012 acre-feet per year (afy) from 1990-1996 (West Jordan City 1996); Riverton City extracted about 3,300 afy (Lambert 1995). Kennecott production wells (1193 and 109) extract about 5,000 to 5,400 afy.

Groundwater Potentiometric Surface. The average depth below ground surface to the potentiometric surface in the principal aquifer of the SWJV is about 235 ft. Groundwater flow is predominantly west to east from the base of the Oquirrh Mountains to the Jordan River. Groundwater in the principal aquifer near the Traverse Mountains generally flows to the northeast, changing to an easterly flow near the center of the basin.

Groundwater Elevation Changes. Groundwater elevations declined substantially throughout the SWJV from 1986 to 1996. Water-level declines observed during this period are as much as 81 feet, depending on location in the aquifer. The largest declines have occurred in the West Jordan City well field area (81 feet) and near KUCC process water wells (72 feet). The rate of decline in this area has averaged 4-8 ft/yr. The rate of decline increased substantially during 1991-1996 due to increased pumping by West Jordan City.

Water-level declines along the eastern boundary of the KUCC waste rock piles have averaged 0.7 ft/yr since 1986. Some of this decline may be associated with the upgraded Eastside collection system, but is more likely due to several years of below-average precipitation during the late 1980s and early 1990s.

The overall average rate of water-level decline for the SWJV was approximately 2.4 ft/yr from 1986 to 1996. The continued decline of groundwater elevations, and the relatively rapid increase in decline in recent years, indicates that more groundwater is being removed from the principal aquifer than is currently supplied by natural recharge.

Hydraulic Gradients. Horizontal hydraulic gradients in the SWJV vary considerably depending on the region. They are generally steeper near the mountains and shallower in

the valley. Along a flow line from the Oquirrh Mountains to the Jordan River, the average composite horizontal hydraulic gradient is approximately 0.025.

Upward vertical hydraulic gradients are greatest near the base of the Oquirrh Mountains. Downward vertical gradients are present east of the Bingham Creek reservoir system and near the KUCC production wells. In the center of the western side of the basin (east of 1193 and 109 to the former KUCC evaporation ponds), vertical hydraulic gradients are nearly non-existent. Both upward and downward gradients are found east of the former KUCC evaporation ponds, that reflects infiltration from canals and regional flow of groundwater to the Jordan River, respectively. Near the Jordan River, the vertical gradients are upward. Location variations in vertical gradients are also observed around municipal and KUCC well fields.

**Groundwater Velocity.** Average horizontal groundwater velocities are based on Darcy's Law, using average gradients and hydraulic conductivity, and an effective porosity of 0.225, which is typical for gravel (Freeze and Cherry 1979). The overall linear groundwater velocity, based on a groundwater flow path from the Oquirrh Mountains to the Jordan River, is about 550 ft/yr (standard deviation of ± 525 ft/yr). This velocity is based on an average gradient of 0.025. In general, the average linear velocity of groundwater between the Oquirrh Mountains and Highway 111 is lower than farther east in the KUCC production well area. The lower velocity near the mountain front is due to lower hydraulic conductivity material (volcanic gravel) than in the production well area, which consists of quartzitic gravel.

Isotopic data, specifically tritium and CFCs (chlorofluorocarbons), also allow an estimate of average linear groundwater velocity. In 1997, six CFC samples were collected along a flow line of the plume extending from the former Bingham Creek reservoir to the eastern edge of the plume (Solomon and Bowman 1997). Monitoring well P190A, located southeast of K60 just down gradient of the former Bingham Creek reservoir sulfate plume, yields a CFC-12 recharge age of 1961, which is consistent with the observed tritium activity in this well. The computed travel time from the Bingham Creek reservoir to P190A is 36 years, which yields an average linear groundwater velocity of about 500 ft/yr. Because dispersion (i.e., mechanical mixing of two fluids in the aquifer) could increase flow rates, this velocity may be in error by about 30 percent, suggesting a range in average groundwater velocity from 500 to 650 ft/yr.

# APPENDIX C

# **Plume Contraction and Containment**

GROUNDWATER MODELING REPORT FOR KENNECOTT
UTAH COPPER CORPORATION
SOUTH FACILITIES
GROUNDWATER PLUME
SOUTH JORDAN VALLEY, UTAH

ADDITIONAL MODELING STUDIES FOR PLUME CONTAINMENT IN SOUTHWESTERN JORDAN VALLEY, UTAH

OCTOBER 1999
KENNECOTT UTAH COPPER CORPORATION
ENVIRONMENTAL ENGINEERING PROJECTS GROUP

# Additional Modeling Studies for Plume Containment in Southwestern Jordan Valley, Utah

Kennecott Utah Copper Corporation Environmental Engineering Projects Group

October 1999

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### **EXECUTIVE SUMMARY**

As part of additional studies related to the Kennecott Utah Copper Corporation (KUCC) Remedial Investigation and Feasibility Study (RI/FS) of groundwater in the southwestern Jordan Valley (KUCC 1998), KUCC has continued optimization of its groundwater model and also investigated the feasibility of using groundwater injection wells to contain the Bingham Creek groundwater plume. The new modeling allowed KUCC to analyze groundwater flow and contaminant migration and evaluate containment options for various groundwater response actions.

KUCC has made improvements to the original flow and transport model used in the RI/FS investigations, including incorporation of a head-dependant (general head) boundary along the western edge of the model instead of the constant flux boundary used in the original modeling. Also, the eastern model boundary was expanded from the Jordan River east to the base of the Wasatch Mountains. Updated field data are also incorporated into the current flow and transport model.

KUCC's current expanded sub-regional model of the southwestern Jordan covers 167 square miles and is bounded by the Oquirrh and Traverse mountains (on the west and south) and by the Wasatch mountains and approximately 6000 South street (on the east and north). The model contains a grid of 94 rows and 136 columns, with variably sized cells and eight vertical layers.

The model incorporates recharge to the principal and shallow unconfined aquifers from the following sources:

- Precipitation
- Bedrock aquifer
- Irrigation canals
- Irrigated fields, lawns and gardens
- Stream and channel fill
- Reservoirs and evaporation ponds
- Groundwater injection wells (during modeling of future remediation scenarios).

Discharge sources include extraction from wells, evapotranspiration and head-dependent boundaries (KUCC 1998).

KUCC recalibrated the expanded model for steady and transient states in the same manner as in the RI/FS study. The steady state simulated hydrologic conditions in 1965. The transient state simulated the period 1966-1998, and included annual stress periods. Calibration variables were adjusted within reasonable ranges, as determined from data collected from the RI/FS and other work. The calibration process is considered successful when a reasonable match is made between observed and modeled conditions for the years being simulated.

The calibrated model closely matched observed water-level declines, estimated flow exchange to the Jordan River, computed flows through the northern and eastern boundary, and vertical hydraulic gradients throughout the modeled area. It is therefore considered to be a useful tool for predicting flow and contaminant transport for the SWJV.

Two cases were investigated in the region between KUCC production wells K109/B2G1193 and the West Jordan municipal well field: one with groundwater injection and one without injection.

Both scenarios used identical KUCC pumping rates of 3000 gallons per minute (gpm) combined for wells K109 and B2G1193, 1000 gpm for the acid well, and 500 gpm each for the Lark production well, North Shoulder well and Sulfate Extraction well. Two scenarios were used for the West Jordan municipal wells: pumping rates of 3750 gpm (3000 acre-feet per year) and 5000 gpm (4000 afy) extracted during a six-month period each year. Extraction of 2575 gpm east of the former KUCC evaporation wells was used for all cases. The only variance to the modeling well package was the inclusion or exclusion of the three injection wells, adding 500, 125 and 500 gpm.

The use of the three injection wells in the predictive model simulations appeared to have a noticeable effect on sulfate concentrations at the five locations down gradient of the injection points included in this report. This was due mostly to the dilution of higher sulfate groundwater by lower sulfate injected water (averaged 50 mg/L), but there were some signs of improvements due to some "mounding" effects in the uppermost modeled aquifer layer 3 which seemed to affect localized flow direction.

West Jordan municipal well extraction rates of 3000 and 4000 afy (3750 and 5000 gpm for six months respectively) were modeled for injection and non-injection comparisons. The higher rate showed a trend of increased sulfate drawn toward the West Jordan well field versus the lesser West Jordan pumping for both injection and non-injection modeling. Groundwater injection did provide improvements in sulfate and drawdown for both West Jordan pumping cases.

# 1.0 INTRODUCTION

#### 1.1 Background

The expanded predictive model was developed to provide a tool for better estimation of the regional groundwater flow and contaminant transport as part of the continuing studies for the Kennecott Utah Copper Corporation (KUCC) Remedial Investigation and Feasibility Study of Groundwater in the southwestern Jordan Valley, Utah (RI/FS). The study area boundaries of the model are shown in Figure 1.

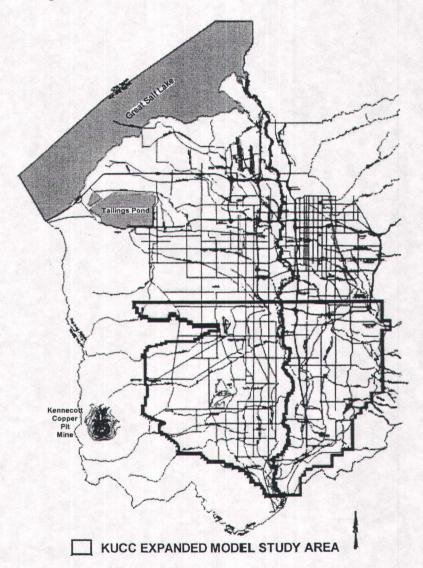


Figure 1: Predictive Flow Model Study Area Location Map.

# 1.2 Modeling Codes

The groundwater flow model constructed as part of the RI/FS was developed using the finite difference, modular, three-dimensional groundwater flow model MODFLOW (McDonald and Harbaugh 1988) coupled with MT3D (Zheng 1996) which is a three-dimensional method of

# 1.0 INTRODUCTION

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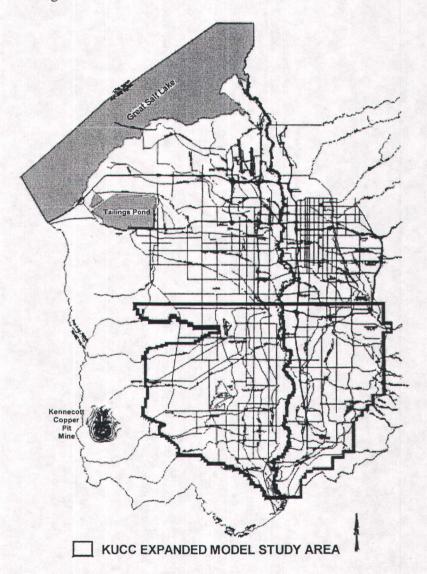


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# 1.2 Modeling Codes

The groundwater flow model constructed as part of the RI/FS was developed using the finite difference, modular, three-dimensional groundwater flow model MODFLOW (McDonald and Harbaugh 1988) coupled with MT3D (Zheng 1996) which is a three-dimensional method of

characteristics transport code. MODFLOW was developed by the U.S. Geological Survey to approximate flow within a groundwater flow system. MT3D is a transport model that uses the principles of combining groundwater flow with the physical aspects of contaminant transport, including advection, dispersion and chemical reactions.

#### 2.0 MODELING APPROACH

#### 2.1 Purpose and Scope

The purpose of this report is to provide a summary of the observed effects due to the placement of groundwater injection wells, in conjunction with extraction wells, as a proposed remediation strategy using the KUCC expanded flow and transport predictive model.

One of the main reasons for considering groundwater injection in this region is that comparison of 1999 with 1996 data shows that the sulfate and pH plumes nearest the West Jordan municipal well field have expanded toward the West Jordan well field. Groundwater injection into the upper part of the aquifer of this region could provide protection in two ways: groundwater mounding and sulfate dilution.

This report is focused on comparisons of two separate modeling scenarios:

- 1) Runs without injection wells ("base case" scenario)
- 2) Runs with groundwater injection at three locations

Numerous investigative scenarios with a variety of combinations of injection well locations and rates were done in the initial stages of modeling. The preferred scenario was three separate injection points between the areas of K109/B2G1193 extraction wells and the West Jordan municipal wells. Initial modeling used rates of injection that ranged between 500 gallons per minute (gpm) and 2000 gpm; a cumulative rate of approximately 1125 gpm provided the best match with available water and infrastructure. Injection was modeled in the upper 300 feet of the principal aquifer (model layers 3 and 4). Well locations with their respective rates are shown in Figure 2.

#### 2.2 Simulation Time Periods

KUCC used modeling stress periods of six months for these modeling runs. This allowed the model to more closely simulate seasonal pumping and/or injection.

Injection and non-injection modeling scenarios were conducted for two West Jordan municipal pumping rates: 3000 and 4000 acre-feet per year (afy). An average withdrawal of 3000 afy was investigated in order to be comparable to modeling for the RI/FS. For that scenario, it was assumed that West Jordan pumping in production well W363 was halted and redistributed among the other West Jordan wells. A West Jordan pumping rate of 4000 afy was also investigated, as this rate is more representative of the rate West Jordan is expected to extract into the future. For this case, West Jordan well W363 was actively pumping instead of redistributed among the other wells. Both West Jordan pumping scenarios were carried out via extraction during a six-month period, while during the other six months the wells were switched off.

KUCC extraction at wells K109, B2G1193 (K60 replacement well), ECG1146 (Acid Well), BCG1159 (North Shoulder Well), LTG1139 (Lark Production Well) and LTG1147 (Sulfate Extraction Well) are listed in Table 1. Extraction rates at the KUCC wells were assumed to remain operative year-round for predictive model simulations.

Table 1. Modeling Extraction Rates for KUCC Wells.

| KUCC<br>Extraction Well | Average Extraction Rate (gpm) |
|-------------------------|-------------------------------|
| K109                    | 1800                          |
| B2G1193                 | 1200                          |
| ECG1146                 | 1000                          |
| BCG1159                 | 500                           |
| LTG1139                 | 500                           |
| LTG1147                 | 500                           |

Groundwater extraction in the former Evaporation pond area was included in both the injection and non-injection scenarios. Extraction was set at cumulative rate of 4120 afy for eight wells; their locations are shown in Figure 2.

#### 3.0 MODELING RESULTS

The main criteria for analysis included effects on flow lines, groundwater elevations and sulfate concentrations in the region of groundwater injection. Differences between no injection and injection scenarios were best compared by the use of time-series plots and contour maps of sulfate concentrations in groundwater. Figure 3 shows time-series sulfate graphs for injection vs. non-injection at KUCC observation wells WJG1154, WJG1171, P191 and P193, as well as at West Jordan production well W363, assuming West Jordan municipal well pumping of 3000 afy. The same time-series graphs for West Jordan pumping rate at 4000 afy are shown in Figure 9. Figure 4 shows initial sulfate modeling concentrations whereas Figures 5 through 8 are sulfate contour maps comparing the two predictive scenarios at 25 and 50 years into the future for West Jordan pumping of 3000 afy. Equivalent plots for West Jordan pumping of 4000 afy are shown in Figures 10 through 13.

With injection, the overall trend at these five observation wells shows inhibition of increasing sulfate concentrations, most notably in the area of the West Jordan municipal well field (wells W363, WJG1154 and WJG1171). KUCC observation wells P191 and P193 located down gradient of the injection well region in Bingham Creek channel (Figure 2) also show reductions in sulfate concentration. Injection reduced drawdown due to West Jordan and KUCC pumping. Both groundwater mounding and down gradient dilution were also observed.

Comparison of the effects of extraction and injection for the two West Jordan extraction rates of 3000 and 4000 afy showed some notable differences. The time-series plots for these scenarios (Figures 3 and 9) show that sulfate concentrations for modeling observation points at W363,

WJG1154 and WJG1171 increase with the increasing pumping in the West Jordan municipal wells. Figure 9 also shows that for the increased West Jordan pumping (non-injection) scenario, drawdown is such that layer 3 dries up in the region. For the injection scenario however, layer 3 does not go dry at any of the shown observation points.

#### 4.0 LIMITATIONS OF THE MODELING

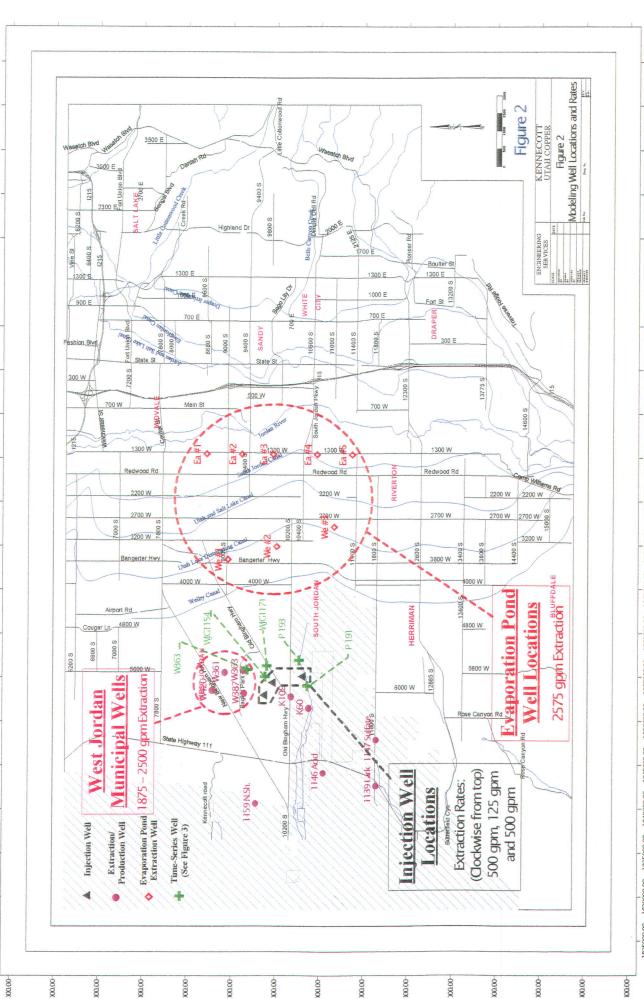
The hydrogeologic system in this area is complex and can only be approximated in the modeling. As a result, techniques directed toward smoothing and weighting collected data were required to incorporate the actual properties found within the groundwater system as described in the RI report (KUCC 1998).

The KUCC model is currently being updated to model variable density groundwater flow. Changes in plume movement due to density-driven flow could have a notable effect on any numerically modeled remediation system. Potential efficiency issues related to injection will need to be investigated with field studies.

# 6.0 REFERENCES

- Kennecott Utah Copper Corporation (KUCC), 1998, Final draft remedial investigation report for Kennecott Utah Copper south facilities groundwater plume, south Jordan Valley, Utah: Version B, March, variously paged.
- McDonald, M.G., and Harbaugh, A.W., 1988, A modular three-dimensional finite-difference groundwater flow model: U.S. Geological Survey Techniques of Water Resources Investigation, book 6.
- Zheng, C., 1996, MT3D a modular three dimensional transport model for simulation of advection, dispersion, and chemical reactions of contaminants in groundwater systems: S. S. Papadopolus and Assoc., Inc.

**Figures** 



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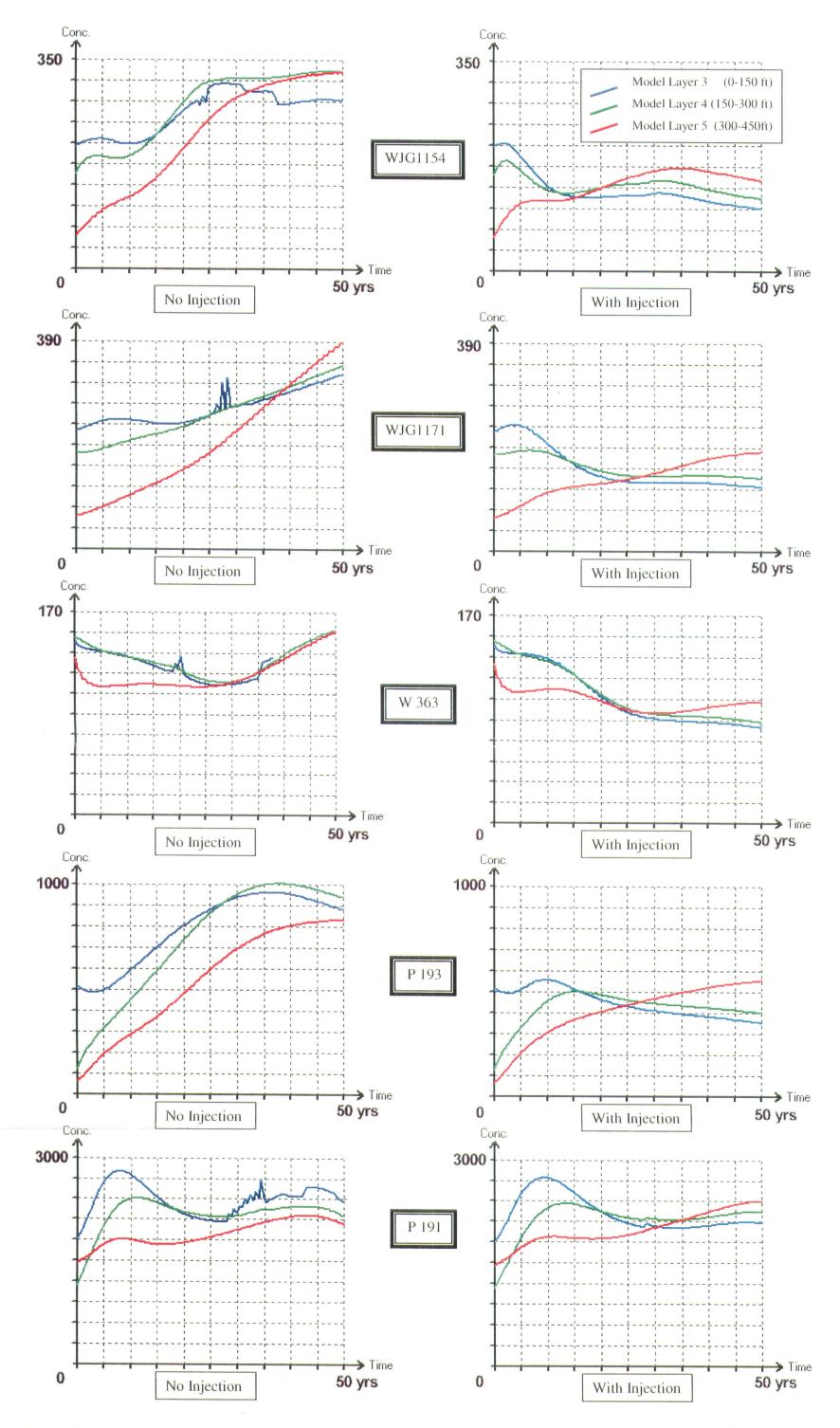
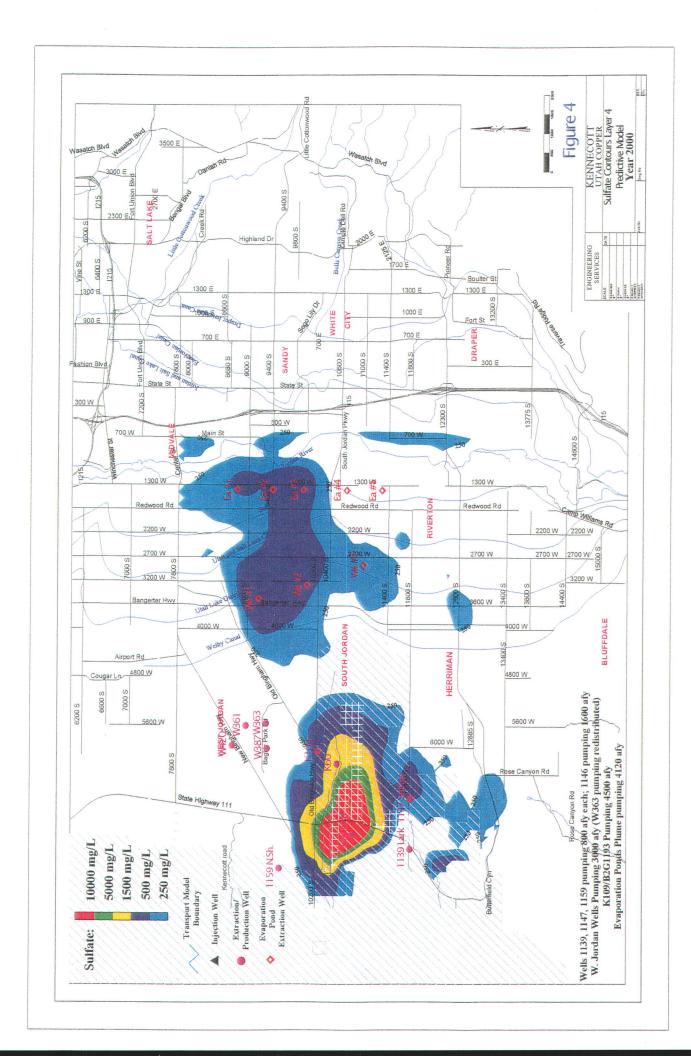
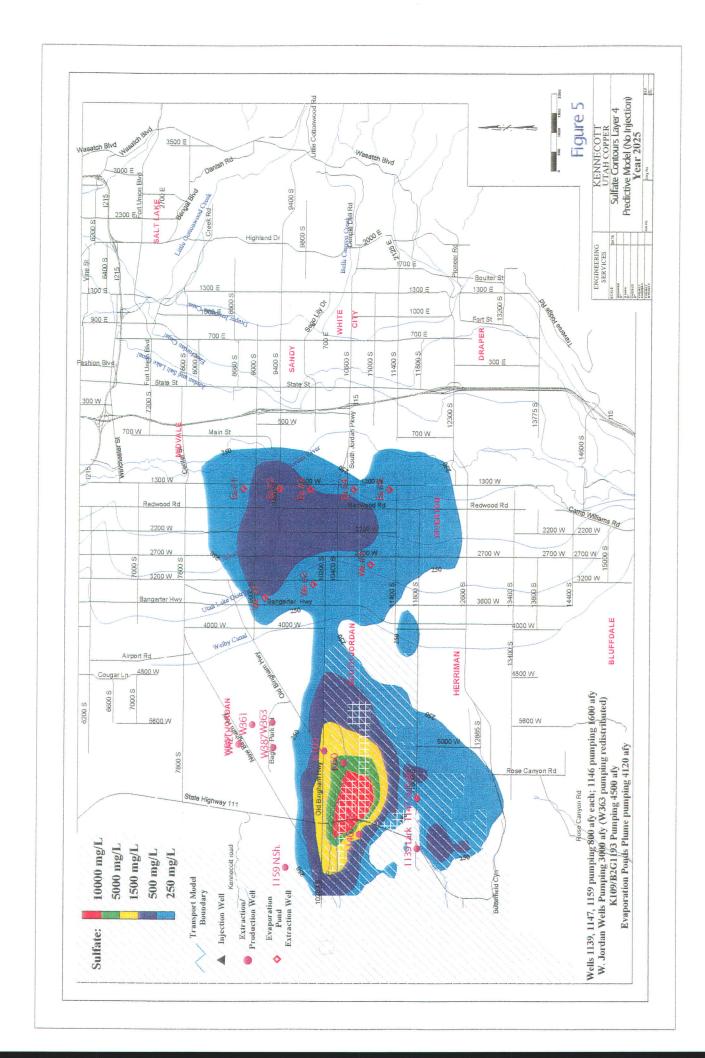
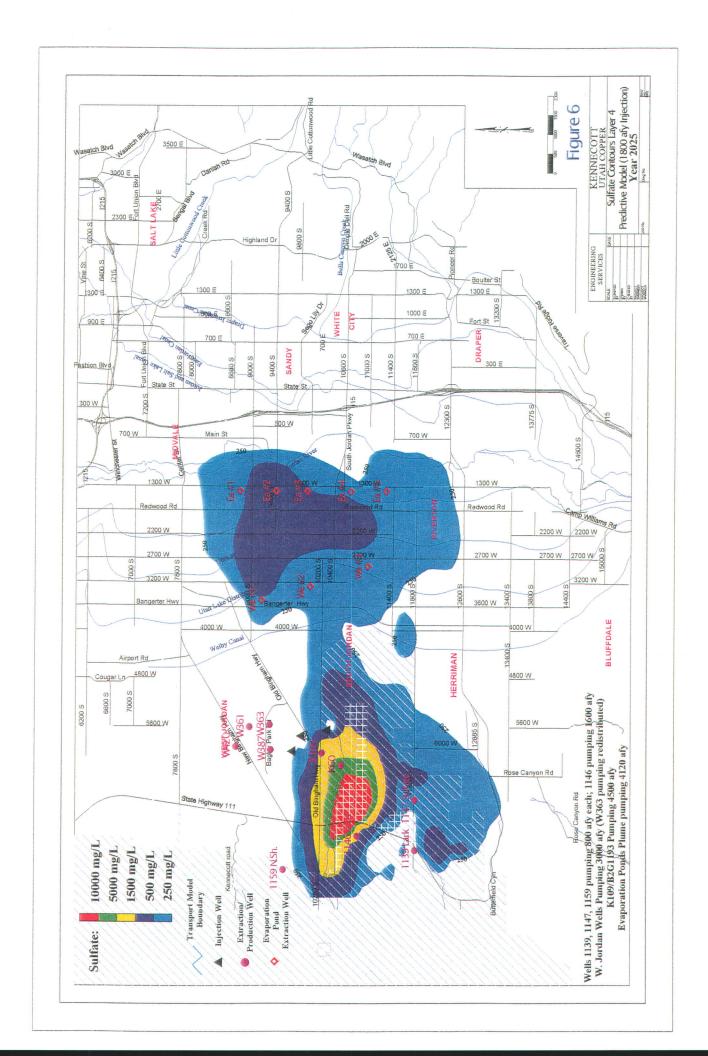
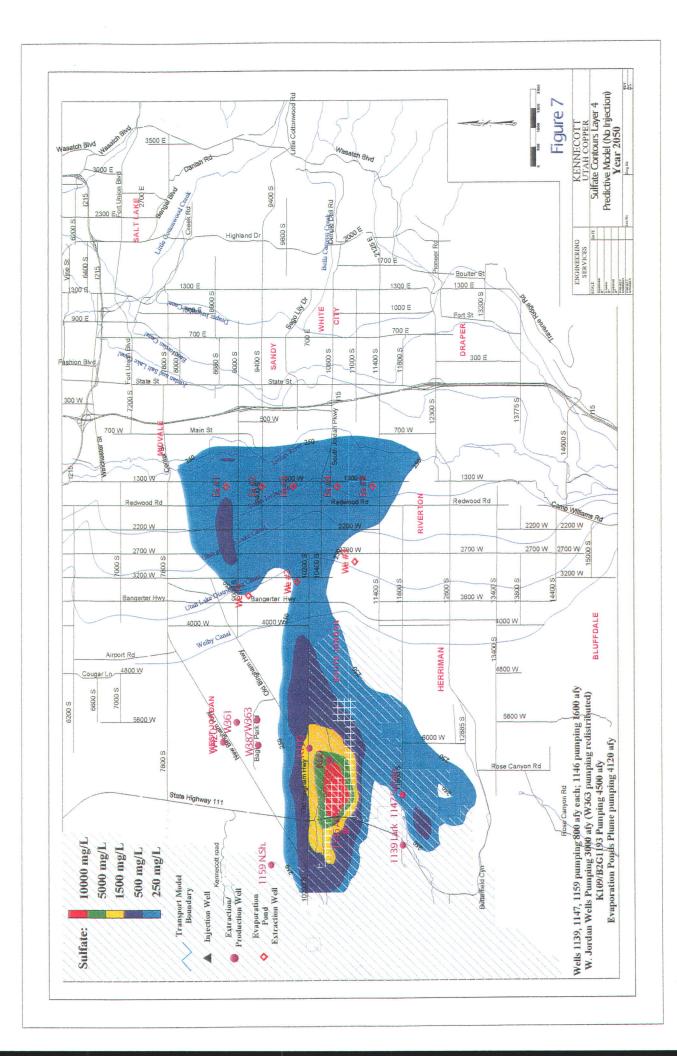


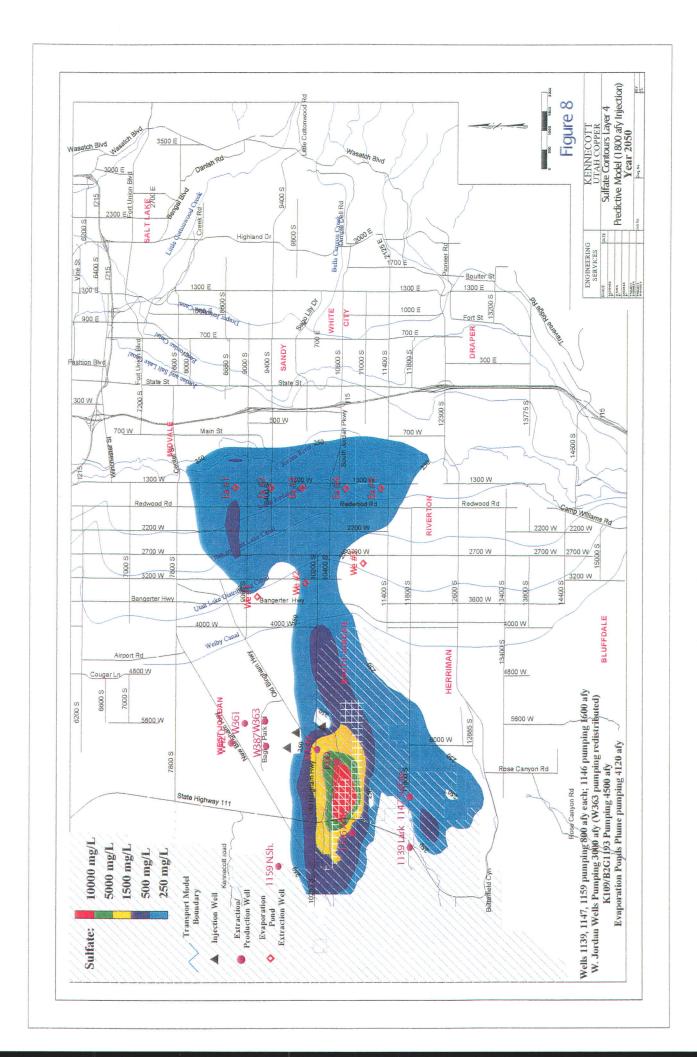
Figure 3. Time Series Sulfate Concentration (in mg/L) for Various Observation Wells (WJ pumping 3000 afy).

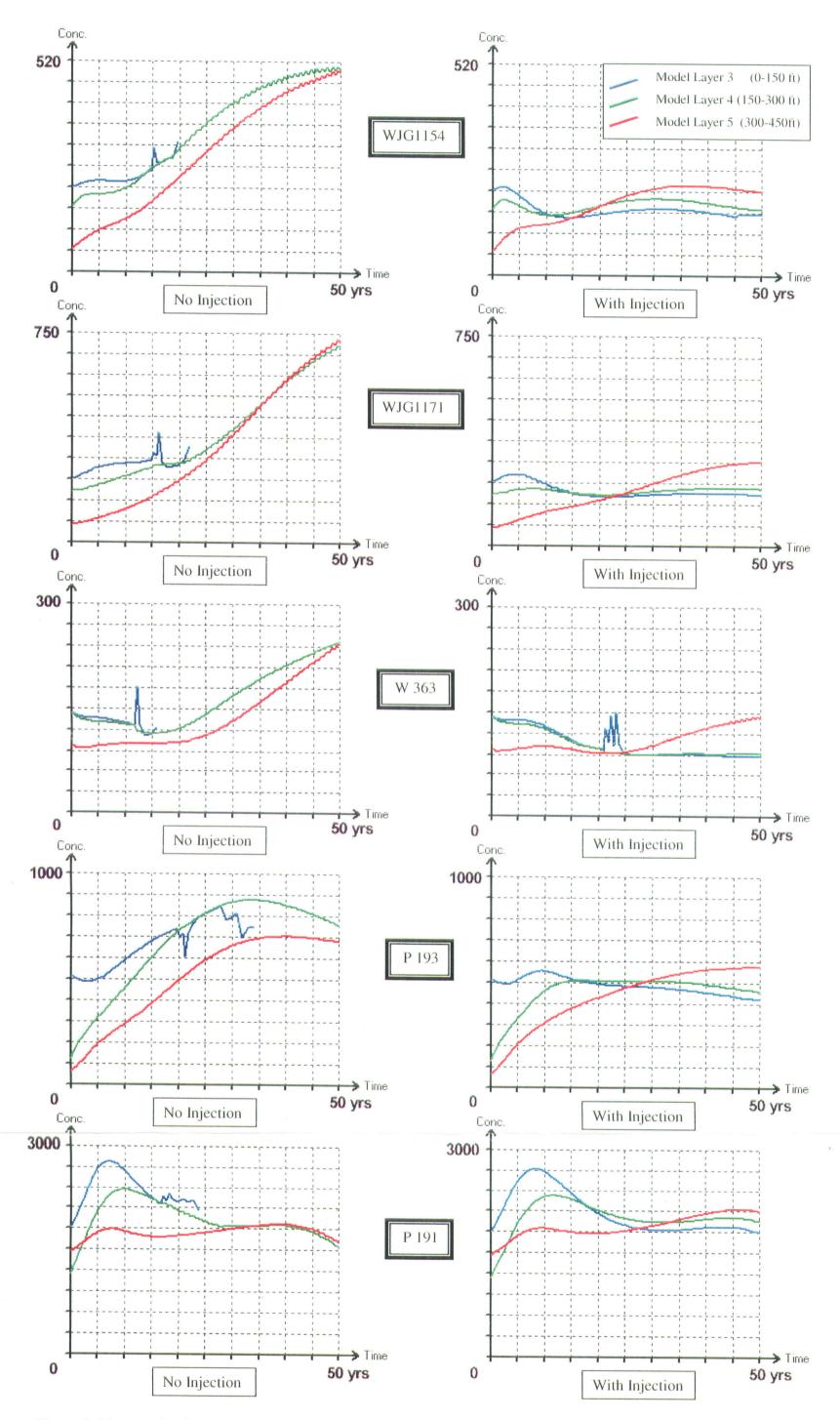




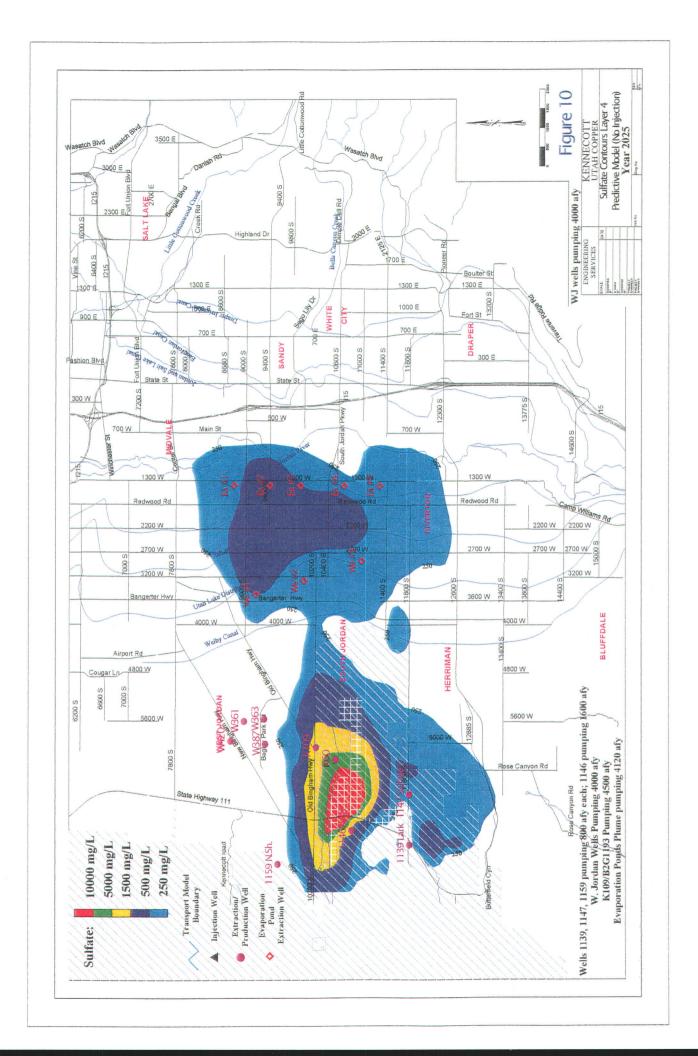


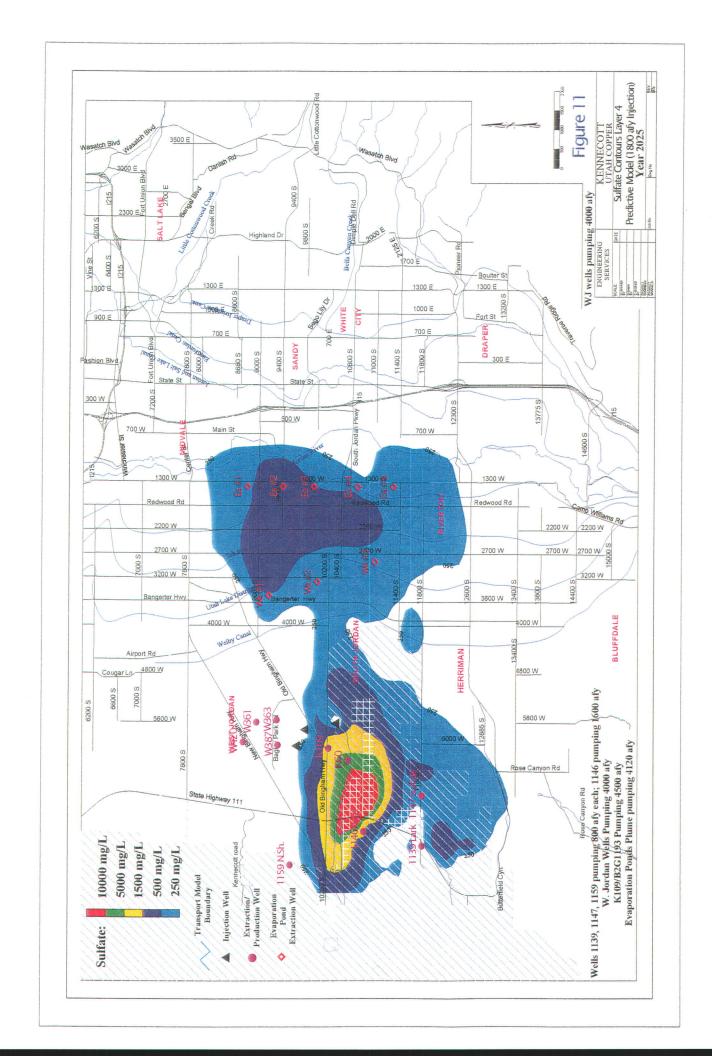


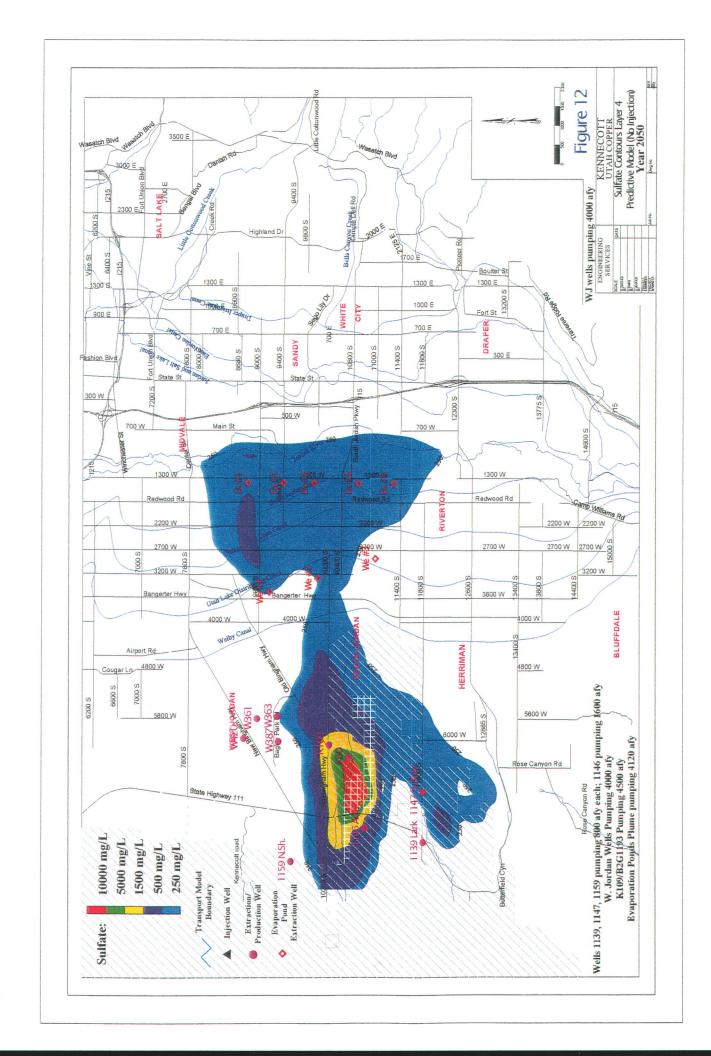


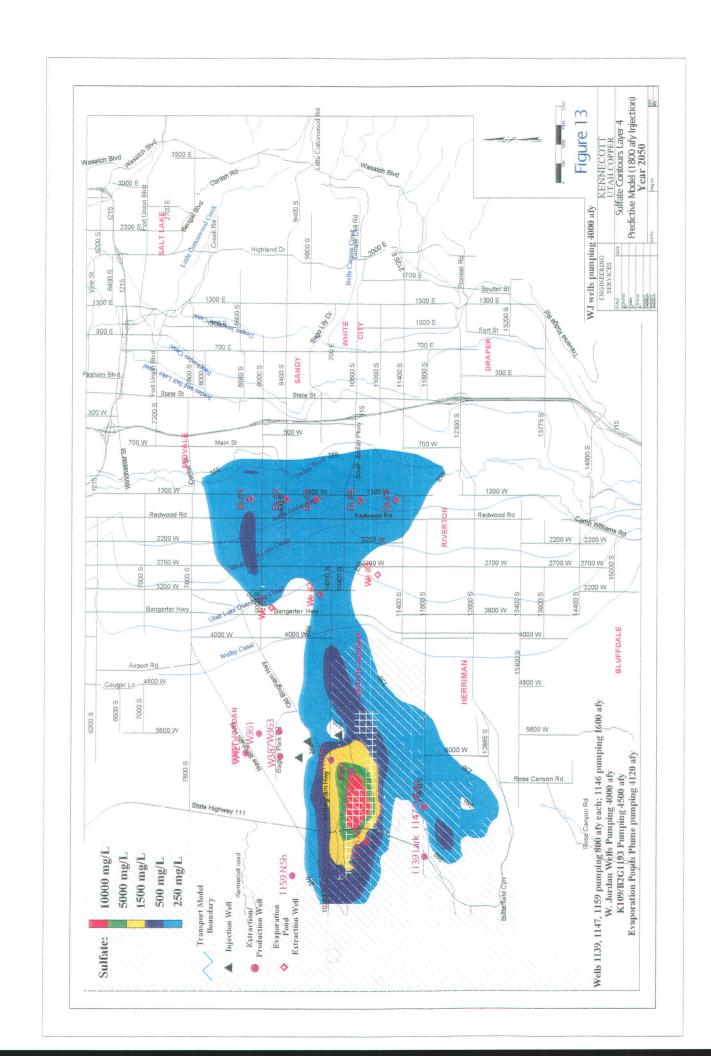


Figure~9.~Time~Series~Sulfate~Concentration~(in~mg/L)~for~Various~Observation~Wells~(WJ~pumping~4000~afy).

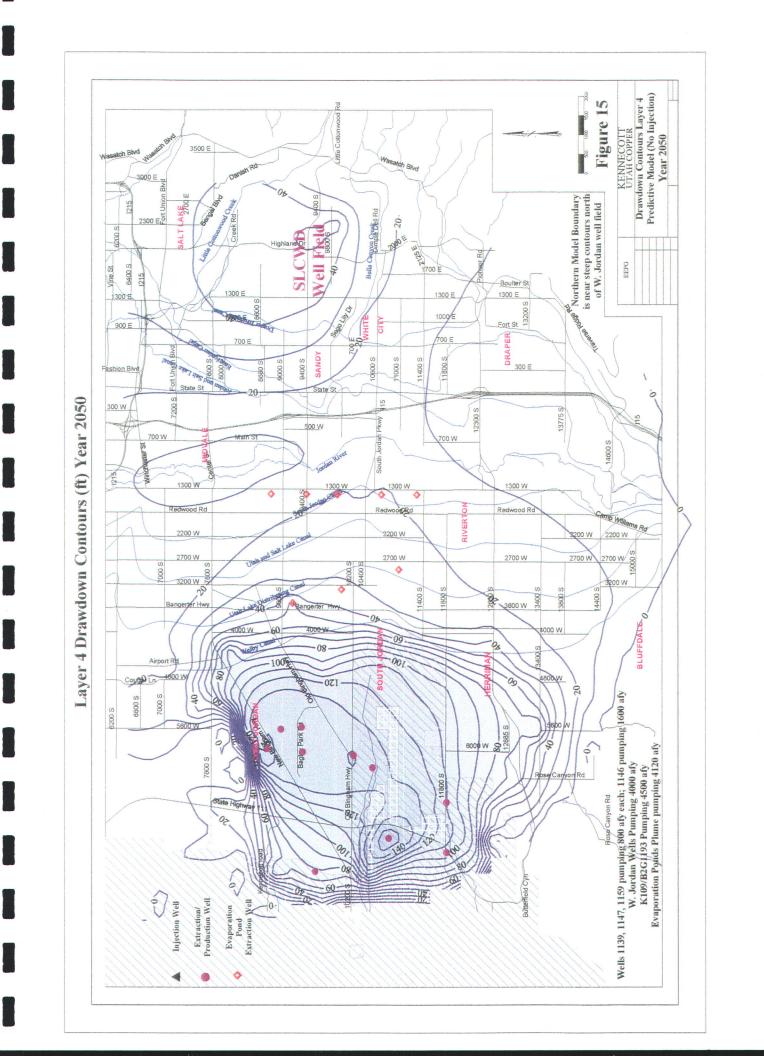


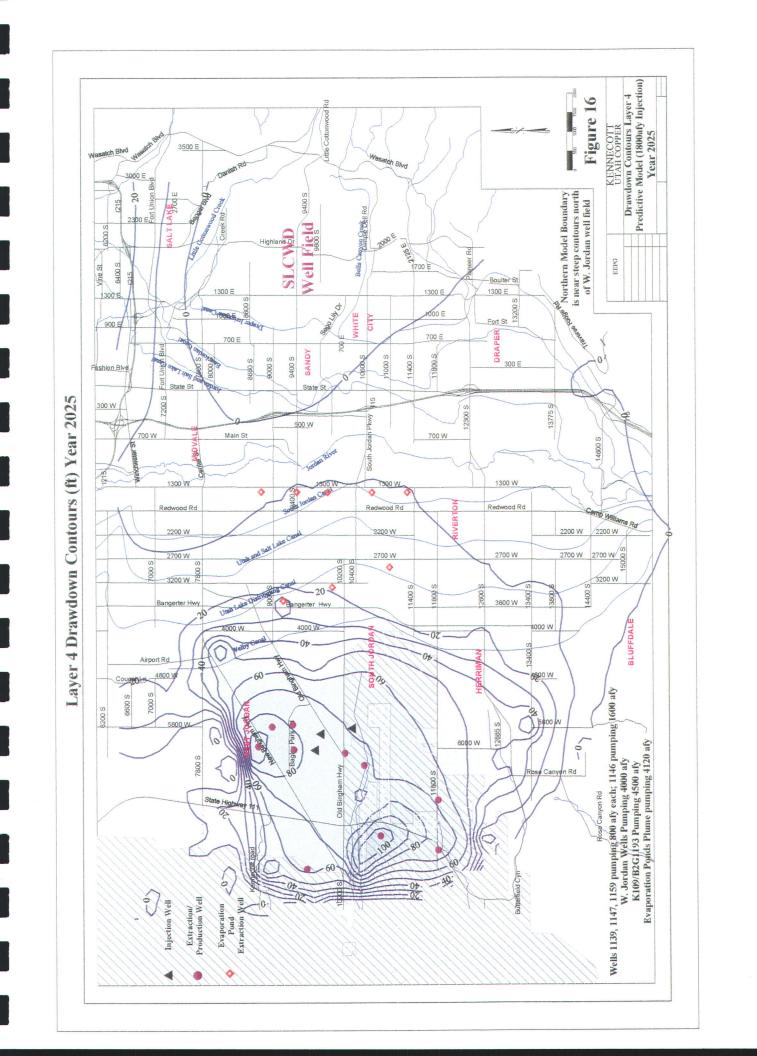


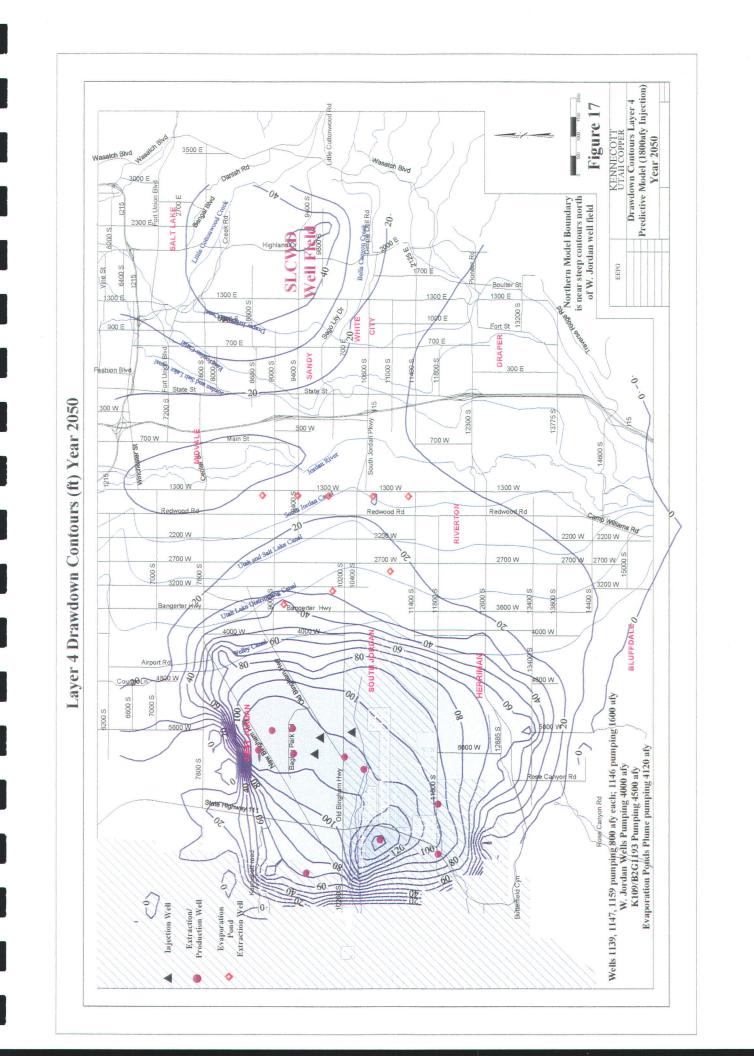












# **APPENDIX D**

**Groundwater Rights in the Affected Area** 

| OWNER  | I SES      | WRNIM    | STATUS         | PRICRITY | FI OW (CES) II OCATION | NCIL                    | AREA CODE |
|--|------------|----------|----------------|----------|------------------------|-------------------------|-----------|
| A CANDIDA E AND LOLLISA                              | T          | T        | APPI I APD     | T        | 1=                     | 100 F 967 NWSI 3S 1W 4  | 59        |
| ASSOCIATES   |            |          | SICOMOL        | 1933000  | ) Z                    |                         | 0,00      |
| ACCOUNTING AND MANAGEMENT ASSOCIATES                 |            | 2556     | GWCDIS         | 19330000 | : z                    | 133 W4SI                | 20        |
| AECO DEVELOPMENT COMPANY                             |            |          | IGWCDIS        | 18940000 | . z                    | _                       | 65        |
| NOIL   |            |          | APPI I APD     | 19740418 |                        | 2500 W4SI 3S 1W 7       | 9         |
|  | Ω Ω        |          | APPLLAPD       | 19740418 | S 14                   | 50 N4SL 3S 1W 7         | . 29      |
|  |            |          | APPLCERT       | 19610521 | Z<br>1                 | 1305 SESL               | 29        |
|  |            |          | APPLCERT       | 19770707 | z                      | •••                     | 29        |
| ALLEN, JAMES T.& KATHY E.                            | SO         |          | APPLCERT       | 19760716 | တ                      | 163 NESL                | 29        |
| ALLEN, R. THAD                                       |            |          | APPLLAP        | 19870325 | z                      |                         | 29        |
| ALLISON, CHARLES L. (JR.)                            |            |          | APPLLAPD       | 19610529 | တ                      | 1607 NWSL 3S            | 29        |
| L. (JR.)   |            |          | APPLLAPD       | 19630130 | S                      | 1657 NWSL               | 29        |
|  | SOI        |          | APPLLAPD       | 19780523 | z                      | 920 SWSL                | 29        |
|  |            |          | APPLLAPD       | 19610908 | တ                      | 1447 E4SL 3S            | 29        |
|  |            |          | APPLCERT       | 19761115 | z                      | 1413 W4SL 3S            | 29        |
| ~  | ins :      |          | APPLCERT       | 19860917 | 0.01500 N 62           | 175 S4SL                | 29        |
| _  | s          |          | APPLCERT       | 19770216 | 0.23300 S 113          | 163 W4SL 3S             | 29        |
| ANDERSON, MAX W. AND MAURINE M.                      |            |          | UGWCDIS        | 19010000 | z                      | 174 SWSL 3S             | 29        |
| ANDERSON, NORMAN K.                                  |            | 59 4801  | APPLLAPD       | 19810302 | 0.01500 S 33           |                         | 29        |
| LIAM K.  | 0          | _        | APPLLAPD       | 19720412 | 0.01500 N 10           | 100 SESL                | 26        |
|  | SOI        |          | APPLLAPD       | 19741029 | 0.04500 S 70           | ≕                       | 20        |
|  |            | 1282     | APPLDIS        |          | S                      |                         | 29        |
| M.   | S          |          | APPLNPR        | 19471007 | z                      | 1975 E4SL               | 29        |
|  |            |          | APPLLAPD       | 19840606 | တ                      | 1090 N4SL               | 29        |
|  |            | 59 4947  | APPLLAPD       | 19830526 | z                      | $\overline{}$           | 29        |
| BARKER, CLYDE  |            |          | APPLDIS        |          | z                      | 90 S4SL 2               | 29        |
|  |            |          | APPLCERT       | 19790921 | z                      | N                       | 26        |
| J. N.J.  |            |          | APPLCERT       | 19770504 | z                      |                         | 29        |
|  | SQI        | 4118     | APPLCERT       | 19750130 | s ·                    | 2213 NES                | 29        |
|  |            |          | APPLCERT       | 19750609 | n :                    | 699 N4SL                | 29        |
| ``   |            |          | APPLCERT       | 19770304 | z                      | 429 W4SL 3S             | 29        |
|  | S          |          | APPLCERT       | 19710603 | s e                    | 260 NWSL 2S             | 92        |
| _  |            | 5473     | newc           | 1934     | S                      | 325 N4SL                | 26        |
| BECKSTEAD, EDWARD B.                                 |            | 2589     | UGWCDIS        | 18990000 | တ                      | / 166 NESL              | ٠<br>م    |
|  |            | 2322     | newcols        | 19181100 | χn :                   | 6/0 NESL 3S             | 6 G       |
| ING M.   | (          | 4495     | APPLCERT       | 19770601 | z :                    | : 1/9 SWSL              | 60        |
|  | 0          |          | APPLCERT       | 19810220 | z :                    | • •                     | 200       |
| THOMAS A. & CHRISTINE J.                             | SO         |          | APPLAPP        | 19850821 | z                      | 330 E                   | 200       |
|  |            | 59 5251  | APPLAPP        | 19880122 | 0.01500 N 55           | 800 SWSL 33             | . or      |
| BELCHAN, I HOWAS A. AND CHRISTINE S.                 | <u></u>    | 50 4102  | APPI CERT      | 19750924 | <u>z</u>               | 145 S4SL 3S             | 22        |
|  | 2 2        | 59 4321  | APPI CERT      | 19760920 | တ                      | 1292 N4SL               | 29        |
|  | S          |          | UGWC           | 19060000 | Z                      | V 200 SESL              | 59        |
|  | 0          |          | APPLNPR        | 19520408 | တ                      | 163 NESL 3              | 29        |
| BIGLER, LOUIS B.                                     |            | 59 1559  | APPLDIS        | 19600428 | ٠.                     | 1470 NESL 3S            | 29        |
| BIGLER, LOUIS B.                                     |            | 59 3246  | NGWC           | 19220000 | တ                      | 1237 NESL 3S            | 29        |
| BIGLER, LOUIS B.                                     |            | 59 2045  | <b>UGWCDIS</b> | 19040000 | S                      | 198 NESL 3S             | 59        |
| BIGLER, LOUIS B. AND HAZEL A.                        |            |          | NGWC           | 19270000 | <b>z</b> (             | 706 E4SL                | 65.0      |
| AND HAZEL A.   |            |          | UGWC           | 19060000 | 0.75000 S 33           | 330 W 1320 NESL 3S 1W 3 | 200       |
|  | ء د        | 59 2404  | DGWC           | 19170000 | 0 0                    | 638 N4SI 3S 1           | 29        |
| BLAND BROTHERS INCORPORATED  BLAND BDIAN AND SHIDLER | <u>ء</u> ۾ | 59 47 05 | APPLICER!      | 19740501 | ) (C                   | 785 N4SL                | 20 62     |
|  | 3 0        | 50 2183  | IIGWC          | 1920000  | Z                      | 936 SESI                | 29        |
| BOARD OF FDICATION (JORDAN SCHOOL DISTRICT)          | · .        | 59 2003  | UGWCDIS        | 19030000 | z                      | 420 SESL 2S             | 59        |
|  |            |          |                |          |                        |                         |           |

| <del></del>  |   |   | - 100   |  |   |  |  |   |  |  |  |   | —   | —   |   |  |  |  | -   |  |   |   |  |  |                                       |  |                        |   |   |   |  |  |  |  |   |  |   |                     |             |              |                  |                 |
|--|---|---|---|--|---|--|--|---|--|--|--|---|---|---|---|--|--|--|---|--|---|---|--|--|---------------------------------------|--|------------------------|---|---|---|--|--|--|--|---|--|---|---------------------|-------------|--------------|------------------|-----------------|
|  |   |   |   |  |   |  |  |   |  |  |  |   |   |   |   |  |  |  |   |  |   |   |  |  |                                       |  |                        |   |   |   |  |  |  |  |   |  |   |                     |             |              |                  |                 |
| 23   | 20  | 29  | 20  | 3 8  | 26  | 29   | 2 2  | n 0   | 20   | 29   | 23   | 20  | n G   | 29  | 29  | 29   | 200  | 200  | 23  | 29   | 20  | 20  | 26   | 29   | 200                                   | 29   | 26                     | 20  | n 0   | 20  | 29   | 20   | 20 0   | 23   | 29  | දු දු  | 2 2                                       | 28                  | 29          | 20           | 20 2             | 20              |
| N35  | 1W29<br>W 5   | 21  | 2W35  | W35  | 2W35  | W35  | W20  | N28<br>N28  | /29  | W15  | 1W15   | W29   | W20   | W26   | W20   | W28  | V32  | W 2  | W33   | W16  | W28   | W18   | V16  | V30  | V30                                   | M30  | V26                    | N35   | //35<br>///34   | ₩<br>4  | 1W15   | 1W20   | W29  | W29  | W28   | 2W35   | 2W35                                      | 1W26                | W21         | 1W35         | 1<br>1<br>1<br>1 | N34<br>N34      |
|  | SL 3S<br>L 3S 1   | 3S 1M   | SL 3S 7   | L 3S 2   |   | 1 38 2   | 35 1   | 35. 1   | ,  | .,   | •  | 33  | ა<br>ა რ  | 3<br>2<br>3   | 38  | ┙.   | ຕຸ_  | 38   | 33  | 38   |   | స్ట్రా స్ట  | 33.1   | 38   | 35                                    | ဗွ ဗွ  |                        |   | ·   | SE 1  | 38   | 33   | 38   | 38   | <b>5</b> S  | 33   | S &                                       | SS                  | L 3S 1      | SS S         | ဗို ဇို          | 1 3S 2W34       |
| 50 N4SI  | 219 SE:<br>45 SWS   | 7 N4SL  | 417 N45   | 97 W4S   | 383 NW  | 10 NWS   | 100 SWS  | 10 N43  | 10 S4SL  | 290 N4S  | 941 NE   | 202 N4S   | 364 S4S   | 110 SW8   | 342 S4S   | 203 N4S  | ISMN 6   | 220 SES  | 650 SES   | 049 NES  | 55 W4S  | 347 SEX<br>895 F49  | 90 E4SL  | 60 N4SL  | 37 E4SL                               | SO NES   | O SWSL                 | 50 SWS  | 30 3003<br>199 W49  | 148 N45   | 2823 NE  | 100 SW3  | 406 N4S  | 308 S48  | 050 N48   | 1050 S4  | 1230 S4<br>558 NW                         | 118 SW              | 99 W4S      | 280 NW       | 665 W4           | 27 S4SL 3S 2W34 |
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| 1.800  | 0.015   | 0.011   | 0.000   | 0.610  | 1.160   | 1.160  | 0.014  | 0.050   | 2.000  | 0.034  | 0.189  | 0.004   | 0.000<br>0.000  | 0.002   | 0.015   | 0.111  | 0.015  | 0.027  | 0.015   | 0.050  | 0.0   | 0.022   | 0.015  | 0.015  | 0.015                                 | 0.00   | 1.180                  | 1.500   | 0.500   | 0.022   | 0.013  | 0.015  | 0.01   | 0.080  | 0.0   | 0.00   | 0.00                                      | 0.015               | 0.01        | 0.015        | 4 4              | 0.01500         |
|  | & z   |   |   |  | 8   | 4  | 9 9  | 3.5   |  | - 2  |  |   |   |   |   | <u> </u>   | 60   |  |   | 9  | - 2   |   | 1 4  | . 2  |                                       | <br>   | =                      | = :   | 9 5   |   | · · · · · · · · · · · · · · · · · · ·  | 27   |  |  | . 00  | 24   | 4 5                                       | 12 2                | 24          | 22           |                  | 4 2             |
| 1961051  | 1987090<br>1957013  | 1933080   | 1961041   | 1968093  | 1956100   | 1988030  | 197911   | 1983080   | 1961083  | 193611   | 191207   | 1962033   | 199904,   | 1933000   | 197204  | 1931060  | 1956070  | 1903   | 1971056   | 198701   | 197001  | 1926  | 198107   | 198906   | 198008                                | 193302   | 195409                 | 196602  | 196609  | 192011  | 1911   | 198309   | 198309   | 191800   | 189900  | 199804   | 199804                                    | 194405              | 194704      | 194409       | 1903             | 19730404        |
| ERT  | ERT<br>PR R   | :   | ERT   | FRT  | ERT   | <u>ط</u> ا   | ERT  | 0 0   | NAP  |  | DIS  | ERT   | NAP<br>For  | <u> </u>  | ERT   |  | P. 6   | SET  | ۲. A  | ERT  | ERT   | SIO   | APD  | ЪР   | ËRT                                   | A<br>C   | ERT                    | INAP  | NAP   | SIG   | DIS  | <u>۲</u>   | APD  | 2  | SIO   | ΡΡ   | d S                                       | 5 8 9 7<br>5 8 9 7  | F. S.       | SIC          |                  | ERT<br>605      |
| APPLC  | APPLC<br>APPIN  | UGWC  | APPLC   | APPIC  | APPLC   | APPLA  | APPLC  | APPLL   | APPLU  | UGWC   | UGWC   | APPLC   | APPLU   | AFFL<br>UGWC  | APPLC   | <br> <br> <br> <br>  | APPLN  | D GWC  | APPLL   | APPLC  | APPLC   | UGWC  | APPLL  | APPLA  | APPLC                                 | APPLL  | APPLO                  | APPLU   | APPLU   | UGWC  | NGWC   | TEMP   | APPLL  | UGWC   | UGWC  | APPLA  | APPLA                                     | APPLA               | APPLN       | APPLC        | <u> </u>         | APPLCERT        |
| 1605   | 5240<br>1302  | 1965  | 5359  | 475F   | 4751  | 4751   | 4309   | 4957<br>5248  | 3246<br>1640   | 84   | 1847   | 1664  | 5607  | 4075<br>1969  | 3845  | 2154   | 1275   | 1951<br>1116   | 3825  | 5215   | 3608  | 1966  | 360<br>4830  | 5091   | 4386                                  | 3895<br>2318   | 1188                   | 3272  | 3404  | 1690<br>2169  | 1872   | 4971   | 4970   | 2256   | 2644  | 5581   | 5581                                      | 404                 |             | 420          | 4357             | 59 3940         |
| 20 20  | 20  | 3 23  | 23  | 2 0  | 20 8  | 29   | 20   | 20  | 29   | 29   | 29   | 29  | 20  | 2 6   | 29  | 29   | 29   | 20   | 50  | 29   | 29  | 23  | 59   | 26   | 29                                    | 2 20   | 29                     | 29  | 29  | 20  | 29   | 29   | 20   | 20   | 29  | 29   | 20  | 20 0                | 20          | 22           | 3 G              | 38              |
| S  | <u>S</u> ⊑  | <u>s</u>  |   |  |   |  | SQI  | o<br>   |  | ·  |  | SQI   | <u>ဗ</u>  | <u> </u>  | DS  | SOI  | S  |  | S   | 2  | s<br>-  |   | SOI  | Sa   | SOL                                   | ď  | )<br>                  | SOI   |   |   |  | IDS  | <u>S</u> <u>c</u>  | 2 2  | 2   |  |   |                     | s <u> </u>  |              |                  | SOI             |
|  |   |   |   |  |   |  |  |   |  |  |  |   |   |   |   |  |  |  |   |  |   |   |  |  |                                       |  |                        |   |   |   |  |  |  |  |   |  |   |                     |             |              |                  |                 |
|  |   |   |   |  |   |  |  |   |  |  |  |   |   |   |   |  |  |  |   |  |   |   |  |  |                                       |  |                        |   |   |   |  | ATION  | ATION  |  |   |  |   |                     |             |              |                  |                 |
|  |   |   |   |  |   |  |  |   |  |  |  |   | MPANY   |   |   |  |  |  |   |  |   |   |  |  |                                       |  |                        |   |   |   |  | ORPOR  | ORPOR  |  |   | É  | Ē   |                     |             |              |                  |                 |
| ۲<br>5   |   |   |   |  |   |  |  |   |  |  |  |   | Š<br>S<br>S<br>S  |   | ď   |  |  |  |   |  |   |   |  |  |                                       |  |                        |   |   |   |  | ENTC   | ENT<br>C   |  |   | EEME   | EEMEI                                     |                     |             |              |                  |                 |
| 5  |   |   |   |  |   |  | ;  |   |  |  |  | į   | IIGATIC   | z   | RENDA   |  |  |  | Ц   |  |   |   |  |  |                                       | <b>&gt;</b>  | -                      |   |   |   |  | /ESTM  | /ESTM  | TSIIG  | ,   | ST AGR   | ST AGR                                    |                     |             |              |                  | į               |
|  |   |   | 'n  |  |   |  | ₹  |   |  |  |  | !   | 구<br>동<br>두   | ₹<br>T  | ND BF   | !  |  |  | NANET   |  |   |   |  |  |                                       | ding   | 5                      |   |   |   | Σ  | NON  | <u>2</u>   | T > =  | -   | TRUS   | TRUS                                      |                     |             |              |                  | !               |
|  | <b>→</b>  |   | CE C  |  |   |  | ≨  |   |  |  |  |   | _   |   |   |  |  |  | ~   | `  |   |   |  |  |                                       | _  |                        |   |   |   |  |  | _  |  |   |  |   |                     |             |              |                  |                 |
| ה אוקקייסטי או   | REN N.  |   | AD JOYCE (  |  | ,   |  | AND KHY  |   |  |  |  |   | E PO  | A AND   | SH  |  |  |  | Ž   | Ē  |   |   | ,  | ്ത്  | шi,                                   | 7  | S                      | ≪   | <b>≥</b>  | Ľ.  | VELMA  | ATE A  | ATE A  | A DEL  |   | -AMILY   | -AMILY                                    | Z,                  |             |              |                  |                 |
| EN S.  | I. & KAREN N.   | : NI  | W. AND JOYCE C  | Λ<br>  | RT I.   | RT I.  | AM C. AND KHYV   | ROLD I.   | Щ  | D.C.   | D.C.   | ES W.   | NORTH POIN  | . OWEN AND  | MORRIS H.   | RVIS E.  | î.<br>H.   | 2  | H. M. ANI   | LD L.  | N.G.  | А<br>Э<br>Э<br>Э  | EMA C  | CINDY B.   | CRAIG E.                              | ELDON<br>FILDON AND  | JAMES S.               | WAYNE W.  | WAYNE W   | I NI  | . AND VELMA  | AL ESTATE A  | AL ESTATE AN   | NE L.<br>BEDTI (FAN  | S W.  | IA B. (FAMILY  | IA B. (FAMILY                             | SAKSON              |             |              | Ý,               | Щ               |
| YOREEN S.  | RENT T. & KAREN N.  | IDT, JOHN   | ARVID W. AND JOYCE (  | KOBEKI I.<br>ROBERT I  | ROBERT I.   | ROBERT I.  | WILLIAM C. AND KHYN  | III, HAROLD I.  | PEIRCE   | J, DAVID C.  | I, DAVID C.  | CHARLES W.  | N AND NORTH POIN  | KSI, J. OWEN AND  | HOFF, MORRIS H. AND BRENDA A  | EAD, ARVIS E.  | DARREL H.  | LULA   | JOSEPH K.<br>PIISSELL M ANI   | RONALD L.  | MILLAN G.   | JSTAVA E.   | L, LEROT C.  | IELD, CINDY B.   | IELD, CRAIG E.                        | HELD, ELDON<br>HELD, ELDON AND   | TELD, JAMES S.         | IELD, WAYNE W.  | IELD, WAYNE W.  | AY, QUINIIN H.  | , 37, C.<br>NEL D. AND VELMA   | ER REAL ESTATE A   | ER REAL ESTATE AN  | JI, GENE L.  | JAMES W.  | MYRNA B. (FAMILY   | MYRNA B. (FAMILY                          | THE WA              |             | JOSE         | TONY A,          | Щ               |
| BOARD OF EDUCATION (JORDAN SCHOOL DISTINCT)<br>BODELL, NOREEN S. | BOOTH BRENT T. & KAREN N.                                       | BOSTH, WILLIAM H.<br>BOSSHARDT, JOHN  | BOWLES, ARVID W. AND JOYCE G  | BOWLES, KOBERT I.  | BOWLES, ROBERT I.   | BOWLES, ROBERT I.  | BOWLES, WILLIAM C. AND KHYVA J.  | BOWMAN III, HAROLD I.   | BRADLET, JAN<br>BRADY I PEIRCE   | BRECKON, DAVID C.  | BRECKON, DAVID C.  | BRIGHT, CHARLES W.  | BRIGHTON AND NORTH POINT IRRIGATION COMPANY   | BRINGHURST, J. OWEN AND KAREN<br>BRINKERHOFF CLALID   | BRINKERHOFF MORRIS H.   | BROADHEAD, ARVIS E.  | BROWN, DARREL H.   | BROWN, LULA  | BUNKER BUSSELL M AND NAMETTED   | BURRUP, RONALD L.  | BURTON, MILLAN G.   | BUSH, GUSTAVA E.  | BUSHIVELL, LEROY C.  | BUTTERFIELD, CINDY B.  | BUTTERFIELD, CRAIG E.                 | BUTTERFIELD, ELDON<br>RITTERFIELD, ELDON AND SHIPI EX  | BUILTERFIELD, JAMES S. | BUTTERFIELD, WAYNE W.   | BUTTERFIELD, WAYNE W.   | BYTHEWAY, COINTIN H.  | CAIN. DONEL D. AND VELMA M.  | ILLISTER REAL ESTATE A   | VLLISTER REAL ESTATE AN  | CANDALOI, GENE L.  | CARDWELL, NOBERT E. (FOW<br>CARTER, JAMES W.  | CARTER, MYRNA B. (FAMILY TRUST AGREEMENT)  | CARTER, MYRNA B. (FAMILY TRUST AGREEMENT) | CASH, LAVON ISANSON | CHARON JUNE | CHAVEZ, JOSE | CHAVEZ, TONY A,  | CHVERS, MELANIE |
|  | 1 S 59 1605 APPLCERT 19610511 1.80000 S 1213 E 350 N4SL 3S 2W35 | 1 S 59 5240 APPLCERT 19870903 0.01500 N 1972 W 1219 SESL 3S 1W29 ID 59 1302 APPL NPR 19870131 0.01500 N 1972 W 1219 SESL 3S 1W29 ID 59 1302 APPL NPR 19870131 0.01500 N 1835 F 145 SWSL 3S 1W 5 | S   59   605   APPLCERT   19610511   1.80000 S   1213 E   350 N4SL 3S 2W35   1S   59 5240   APPLCERT   19870903   0.01500 N   1972 W   1219 SESL 3S 1W29   1D   59 1302   APPLNPR   19570131   0.01500 N   635 E   145 SWSL 3S 1W5   1S   59 1965   UGWC   19330800   0.01100 S   93 E   127 N4SL 3S 1W21   1S   1965   UGWC   19330800   0.01100 S   93 E   127 N4SL 3S 1W21   1S   1965 | 1 S 99 1605 APPLCERT 19610511 1.80000 S 1213 E 350 N4SL 3S 2W35 1S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | S   59   1605   APPLCERT   19610511   1.80000   S   1213 E   350 N4SL 3S   2W35   1S   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S   1W29   1D   59   1362   APPLCERT   19670131   0.01500   N   635 E   145 SW3L 3S   1W29   18   18   1965   1967   19610411   0.00000   S   1218 W   1417 N4SL 3S   2W35   18   1467   19661008   1.16000   S   353 E   666 NW3L 3S   2W35   1968   1456   1456   1486   1397 W4SL 3S   2W35   1486   1397 W4SL 3S   2W35   1486   1486   1397 W4SL 3S   2W35   1486 | S   59   5240   APPLCERT   1961 0511   1.80000   S   1213 E   350 NASL 3S 2W35   1.8   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S 1W29   1.8   1965   UGWC   19330800   0.01100   S   93 E   127 NASL 3S 1W5   1.8   1965   APPLCERT   1961 0411   0.00000   S   1218 W   1417 NASL 3S 1W35   1.9   1965   APPLCERT   1961 0411   0.00000   S   1218 W   1417 NASL 3S 2W35   1.9   1966   APPLCERT   1968 0930   0.61000   N   448 E   1397 W4SL 3S 2W35   1.9   1960   S   156   APPLCERT   1966 1008   S   2531 E   1083 NWSL 3S 2W35   1.9   1960   S   2531 E   1083 NWSL 3S 2W35   1.9   1960   S   2531 E   1083 NWSL 3S 2W35   1.9   1960   S   2531 E   1083 NWSL 3S 2W35   1.9   1 | S   59   500   APPLCERT   19610511   1.80000   S   1213 E   350 NASL 3S 2W35   1.8   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S 1W29   1.8   1965   UGWC   19330800   0.01100   S   93 E   127 NASL 3S 1W5   1.8   1965   UGWC   19610411   0.00000   S   1218 W   1417 NASL 3S 1W35   1.8   1965   APPLCERT   19610411   0.00000   S   1218 W   1417 NASL 3S 2W35   1.8   1966   NWSL 3S 2W35   1.9   1160   APPLCERT   1961008   1.16000   S   2531 E   1083 NWSL 3S 2W35   1.9   1961041   1.16000   S   2531 E   1083 NWSL 3S 2W35   1.16000   S   200 E   710 NWSL 3S 2W35   1.160000   S | S   59   500   APPLCERT   19610511   1.80000   S   1213 E   350 NASL 3S 2W35   1.8   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S 1W29   1.8   59   1965   UGWC   19330800   0.01100   S   93 E   127 NASL 3S 1W21   1.8 | S   59   5240   APPLCERT   19610511   1.80000   S   1213 E   350 NASL 3S 2W35   1.5   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S 1W29   1.5   59   1965   UGWC   19330800   0.01100   S   93 E   127 NASL 3S 1W21   1.80000   S   1218 W   1417 NASL 3S 1W21   1.80000   S   1218 W   1417 NASL 3S 2W35   1.800000   S   1218 W   1417 NASL 3S 2W35   1.8000000   S   1218 W   1417 NASL 3S 2W35   1.8000000   S   1218 W   1417 NASL 3S 2W35   1.80000000   S   1218 W   1417 NASL 3S 2W35   1.80000000   S   1218 W   1417 NASL 3S 2W35   1.8000000000000000000000000000000000000 | S   59   5240   APPLCERT   19610511   180000   S   1213 E   350 NASL 3S 2W35   IS   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S   1W29   IS   59   1965   UGWC   19330800   0.01100   S   93 E   127 NASL 3S   1W21   1800010   S   1218 W   1417 NASL 3S   1W21   1800010   S   1218 W   1417 NASL 3S   1W21   1800010   S   1218 W   1417 NASL 3S   1W21   S   1475   APPLCERT   1961041   0.00000   S   1218 W   1417 NASL 3S   2W35   S   1475   APPLCERT   19680930   0.61000   N   448 E   1397 W4SL 3S   2W35   S   1475   APPLCERT   19680930   1.16000   S   2531 E   1083 NWSL 3S   2W35   S   14400   S   14400 | S   59   5240   APPLCERT   19610511   180000   S   1213 E   350 NASL 3S 2W35   1S   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S 1W29   1S   59   1965   UGWC   19330800   0.01100   S   93 E   127 NASL 3S 1W21   1S   59   1965   UGWC   19610411   0.00000   S   1218 W   1417 NASL 3S 1W21   1   159   156   APPLCERT   19610411   0.00000   S   1218 W   1417 NASL 3S 2W35   1   159   156   APPLCERT   19680930   0.61000   N   448 E   1397 W4SL 3S 2W35   1   1   159   4751   APPLCERT   19561008   1.16000   S   2531 E   1083 NWSL 3S 2W35   1   159   4751   APPLCERT   19580304   1.16000   S   2531 E   1083 NWSL 3S 2W35   1   100 | S   59   500   APPLCERT   19610511   180000   S   1213 E   350 NASL 3S   2W35   1S   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S   1W29   1S   59   1965   UGWC   19330800   0.01100   S   93 E   127 NASL 3S   1W29   1800000   S   1218 W   1417 NASL 3S   1W21   1800000   S   1218 W   1417 NASL 3S   1W21   18000000   S   1400   S   1400 | S   59   5240   APPLCERT   19610511   180000   S   1213 E   350 NASL 3S   2W35   150   59   5240   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S   1W29   150   150   25359   APPLCERT   19610411   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1218 W   1417 NASL 3S   1W21   1861041   0.00000   S   1420 E   1100 SWSL 3S   1W21   1861041   0.00000   S   1420 E   1910 SWSL 3S   1W21   1910671   0.00000   S   1420 E   1910 SWSL 3S   1W21   19107   0.00000   S   1400 W   185 E   1400 W   185 E   1400 SWSL 3S   1W21   19107   0.00000   S   1400 W   185 E   1400 SWSL 3S   1W21   19107   S   1400 W   1810 SWSL   S   1W21   S | S   59 5240   APPLCERT   19610511   180000   S   1213 E   350 NASL 3S 2W35   15 59 1302   APPLCERT   19870903   0.01500   N   1972 W   1219 SESL 3S 1W29   15 59 1965   UGWC   19330800   0.01100   S   93 E   145 SWSL 3S 1W2   1850411   S   59 4751   APPLCERT   1961041   0.00000   S   1218 W   1417 NASL 3S 1W21   1   59 4751   APPLCERT   1961008   1.16000   S   331 E   666 NWSL 3S 2W35   1   S   4751   APPLCERT   1961008   1.16000   S   2531 E   1083 NWSL 3S 2W35   1   S   4751   APPLCAPT   1961008   1.16000   S   2531 E   1083 NWSL 3S 2W35   1   S   4309   APPLCAPT   19810601   S   1400 SWSL 3S 1W20   S   640   APPLCAPT   19810601   S   1400 SWSL 3S 1W20   S   1640   APPLCAPT   19610830   S   1401 W   290 NASL 3S 1W15   S   1644   APPLCAPT   19610830   S   1401 W   290 NASL 3S 1W15   S   1644   APPLCAPT   19610830   S   1401 W   290 NASL 3S 1W15   S   1644   APPLCAPT   19610830   S   1401 W   290 NASL 3S 1W20   S   1644   APPLCAPT   19610830   S   1401 W   290 NASL 3S 1W20   S   1644   APPLCAPT   19620221   S   1400 NWSL 3S 1W20   S   1400 NWSL | S   59 5240   APPLCERT   19610511   180000   S   1213 E   350 NASL 3S 2W35   15 59 1965   JQWC   19330800   O.01500   N   1972 W   1219 SESL 3S   1W29   15 59 1965   JQWC   19330800   O.01100   S   93 E   145 NWSL 3S   1W29   JQWC   JQWC | S   59 1665   APPLCERT   19610511   180000   1213 E   350 N4SL   3S 2W35   180   1 | S   59 1605   APPLCERT   19810903   19810903   19810903   188109 | S   59 1605   APPLCERT   19610511   1.80000   S   1213 E   350 N4SL 3S   2W35   1.80000   S   1213 E   350 N4SL 3S   1.80000   S   1213 E   350 N4SL 3S   1.80000   S   1213 E   350 N4SL 3S   1.80000   S   1218 E   350 N4SL   S   1.800000   S   1218 E   137 N4SL   S   1.80000   S   1.800000   S   1.800000   S   1.800000   S   1.800000   S   1.800000   S   1.800000   S   1.8000000   S   1.800000   S   1.8000000   S   1.8000000   S   1.8000000   S   1.8000000   S   1.8000000000000000000000000000000000000 | S   59 5240   APPLICERT   19870903   180000   S   1213 E   350 N4SI   35 2W35     S   59 5240   APPLICERT   19870903   0.01500   N   1972 W   1219 SESL   35 1W29     S   59 1302   APPLICERT   19870903   0.01500   N   4972 W   1219 SESL   35 1W29     S   59 5359   APPLICERT   19561008   0.01100   S   351 E   666 NWSL   35 2W35     S   4751   APPLICERT   19680930   0.61000   S   1218 W   1417 N4SL   35 2W35     S   94751   APPLICERT   19680930   0.61000   S   1218 W   1417 N4SL   35 2W35     S   94751   APPLICERT   19680930   0.61000   S   1218 W   1417 N4SL   35 2W35     S   94 4957   APPLICERT   19680930   0.61000   S   1218 W   1417 N4SL   35 2W35     S   94 4957   APPLICERT   19680930   0.61000   N   448 E   1397 W4SL   35 2W35     S   94 4957   APPLICAPD   19830802   0.61000   N   448 E   1397 W4SL   35 2W35     S   95 4957   APPLICAPD   19800802   0.01400   N   456 E   451 S   4W20     S   95 4957   APPLICERT   19610830   0.01400   N   450 E   451 S   4W20     S   95 4076   APPLICERT   19620321   0.00400   S   4101 W   290 N4SL   35   4W20     S   95 607   APPLICERT   19620321   0.00400   S   3410 W   200 N4SL   35   4W20     S   95 607   APPLICERT   19620321   0.01500   N   1127 W   264 S4SL   35   4W20     S   95 607   APPLICERT   19500000   N   1127 W   264 S4SL   35   4W20     S   95 607   APPLICERT   19500000   N   1127 W   264 S4SL   35   4W20     S   95 1275   APPLICERT   19560799   0.01500   N   1050 E   110 SWSL   25   4W20     S   95 1275   APPLICERT   19560799   0.01500   N   1050 E   110 SWSL   25   4W20     S   95 1275   APPLICERT   19560799   0.01500   N   1050 E   10 SWSL   35   4W20     S   95 1275   APPLICERT   19560799   0.01500   N   1050 E   10 SWSL   35   4W20     S   95 1275   APPLICERT   19560799   0.01500   N   1050 E   10 SWSL   35   4W20     S   95 1275   APPLICERT   19560799   0.01500   N   1050 E   10 SWSL   35   4W20     S   95 1275   APPLICERT   1950070   N   1050 E   10 SWSL   35   4W20     S   95 1275   APPLICERT   1950070   N   1050 E   10 SWSL   35   4W20     S   95 1275 | S   59 1605   APPLCERT   19610511   1.80000   S   1213 E   350 N4SL 3S 2W35   1.80000   S   1213 E   350 N4SL 3S 2W35   1.80000   S   1213 E   350 N4SL 3S 2W35   1.80000   S   1218 W   1219 SESL 3S 1W29   1.80000   S   1218 W   1219 SESL 3S 1W21   1.80000   S   1218 W   1219 SESL 3S 1W21   1.80000   S   1218 W   1417 N4SL 3S 2W35   1.80000   S   1231 E   1083 NWSL 3S 1W25   1.80000   S   1231 E   1.800000   S   1231 E   1.8000000   S   1231 E   1.800000   S   1231 E   1.8000000   S   1231 E   1.8000000   S   1231 | S   59 1605   APPLCERT   19870903   1213 E   350 N4SL 3S 2W35   15 59 5240   APPLCERT   19870903   1972 W 1219 SES1 3S 1W29   195 1005   195 | S   59 6540   APPLICERT   19610511   1,80000   S   1213 E   350 N4SL 3S   2W35     S   59 5240   APPLICERT   1967031   0,01500   N   1972 W   1219 SESL 3S   1W29     S   59 1302   APPLICERT   19670411   0,00000   S   1218 W   1417 N4SL 3S   1W21     S   59 4751   APPLICERT   19610411   0,00000   S   1218 W   1417 N4SL 3S   1W21     S   59 4751   APPLICERT   19661008   1,16000   S   253 E   668 NWSL 3S   2W35     S   59 4751   APPLICERT   19661008   1,16000   S   253 E   668 NWSL 3S   2W35     S   59 4751   APPLICERT   19661008   1,16000   S   253 E   668 NWSL 3S   2W35     S   59 4751   APPLICERT   19661008   1,16000   S   253 E   668 NWSL 3S   2W35     S   59 4751   APPLICERT   19661030   0,01400   N   264 E   1397 W4SL 3S   2W35     S   59 4751   APPLICERT   19661030   0,01400   N   260 M   261 M   281 M     S   50 4040   APPLICERT   19671050   N   2000   N   200   N   200     S   50 4040   APPLICERT   19670321   0,00400   S   3410 W   202 N4SL 3S   1W29     S   50 4040   APPLICERT   19620321   0,00400   S   3410 W   202 N4SL 3S   1W29     S   50 4040   APPLICERT   19620321   0,00400   S   3410 W   202 N4SL 3S   1W29     S   50 4040   APPLICERT   19620321   0,00400   S   3410 W   202 N4SL 3S   1W29     S   50 4040   APPLICERT   19620321   0,00400   S   3410 W   202 N4SL 3S   1W29     S   50 4040   APPLICERT   19620321   0,00400   S   3410 W   202 N4SL 3S   1W29     S   50 4040   APPLICERT   19420425   0,00500   N   1012 W   204 N4SL 3S   1W29     S   50 4040   APPLICERT   19420425   0,00500   N   1012 W   204 N4SL 3S   1W29     S   50 4040   APPLICERT   19420425   0,00500   N   1012 W   201 | S   59 1605   APPLCERT   1987093   1.80000   S   1218   350 N451   35 2W35     S   59 1605   APPLCERT   1987093   0.01500   N 1972 W 1219 SEES 1.35 1W29     S   59 1965   UGWC   19330800   0.01100   S   351 E   145 SW21   35 1W2     S   59 4751   APPLCERT   19661008   1.60000   S   1218 W 1417 N4SL 3S 1W35     S   4751   APPLCERT   19661008   1.60000   S   231 E   666 NWSL 3S 2W35     S   59 4751   APPLCERT   19661008   1.60000   S   231 E   666 NWSL 3S 2W35     S   59 4751   APPLCERT   19661008   1.6000   S   2351 E   666 NWSL 3S 2W35     S   59 4751   APPLCERT   19661008   1.6000   S   2351 E   666 NWSL 3S 2W35     S   59 4751   APPLCERT   19661008   1.6000   S   2351 E   666 NWSL 3S 2W35     S   59 4751   APPLCERT   19661009   0.01400   N 185 E   1100 SW35     S   54 4309   APPLCERT   19661030   0.01400   N 185 E   1100 SW35     S   54 4309   APPLCERT   1967040   0.00400   S   230 E   710 NWSL 3S 2W35     S   54 400   APPLCERT   1967030   0.00400   S   2410   W 200 N4SL 3S 1W29     S   64 4 APPLCERT   1962032   0.00400   S   3410   W 202 N4SL 3S 1W29     S   56 607   APPLUNAP   19930422   0.00400   S   3410   W 202 N4SL 3S 1W29     S   59 456   APPLUNAP   19930402   0.01500   N 102   420 SWSL 3S 1W29     S   59 456   APPLCERT   1962032   0.00400   S   3410   W 202 N4SL 3S 1W29     S   59 456   APPLCERT   19720426   0.00500   N 102   420 SWSL 3S 1W29     S   59 456   APPLCERT   19720426   0.00500   N 102   W 542 SASL 3S 1W29     S   59 456   APPLCERT   1970040   0.01500   N 1049   W 542 SASL 3S 1W29     S   59 456   APPLCERT   19500709   0.01500   N 1145   W 205 SESL 2S 1W28     S   59 456   APPLCERT   19500709   0.01500   N 1145   W 20 SESL 2S 1W28     S   59 456   APPLCERT   19500709   0.01500   N 1145   W 20 SESL 2S 1W28     S   59 456   APPLCERT   19500709   0.01500   N 1145   W 20 SESL 2S 1W28     S   59 456   APPLCERT   19600709   0.01500   N 1145   W 20 SESL 2S 1W28     S   59 466   UGWCD   S   389 W 1049   W 542 SASL 3S 1W29     S   59 506   APPLCERT   19700102   0.01500   N 1146   W 205 SESL 2S 1W2 | 1.5   59 1605   APPLCERT   19610511   1.80000   S 1213 E 350 N451 35 2W35     1.5   59 1605   APPLCERT   19670913   0.01500   N 1972 W 1219 SEELS 31 WV29     1.5   59 1965   APPLCERT   1967041   0.01500   S 1218 E 145 SWS1 S3 1W29     1.5   59 4751   APPLCERT   19661041   0.00000   S 1218 W 1417 M45L 35 2W35     1.5   59 4751   APPLCERT   19661041   0.00000   S 1218 W 1417 M45L 35 2W35     1.5   59 4751   APPLCERT   19661040   0.00000   S 1218 W 1417 M45L 35 2W35     1.5   59 4751   APPLCERT  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 50   1766   APPLCERT   1968   10000   S   1218   W   171   MSL 35   WW21     S   50   1765   APPLCERT   1968   10000   S   1218   W   171   MSL 35   WW32     S   50   1765   APPLCERT   1968   10000   S   1218   W   171   W   181     S   50   4751   APPLCERT   1968   10000   S   1218   W   131   W   131     S   50   4751   APPLCERT   1968   10000   S   1218   W   131   W   131     S   50   4751   APPLCERT   1968   10000   S   1218   W   131   W   131     S   50   4751   APPLCERT   1968   10000   S   1218   W   131   W   131     S   50   4751   APPLCERT   1968   10000   S   1218   W   131   W   131     S   50   4751   APPLCERT   1968   10000   S   1218   W   131   W   131     S   50   4751   APPLCERT   1968   10000   S   1218   W   131   W   131     S   50   4218   APPLCERT   1969   10000   S   1218   W   131   W   131     S   50   4218   APPLCERT   1969   10000   S   1218   W   131   W   131     S   50   4214   UGWC   1936   110   S   140   W   201   M   131   W   131     S   50   4076   APPLCERT   1970   10000   S   1400   W   201   M   131     S   50   4076   APPLCERT   1970   10000   S   1400   W   201   M   131     S   50   4076   APPLCERT   1970   10000   S   100 | S   59   660           | 15   59 1605   APPLICERT   196 16151   180000   5 1213 E 350 N4SL 35 2W35     15   59 1965   UGWC | 15   59   500   100 | S   59   16675   APPLICERT   1961 (16511)   1800000   1213   1213   125   145   145   1487 (1691)   1913 | S   99   16675   APPLICERT   1961   1551   1800000   12172   250   M4SL 35   249.35   1800000   180000   18172   1817093   1 | 1.5   59 1665   APPLCERT   19610311   1800000   \$12318   55 0.0356   APPLCERT   19870933   0.01500   0.97218   55 0.0356   APPLCERT   19870913   0.01500   0.97218   17.0481, 35 1W5   19.05236   APPLCERT   19870131   0.01500   0.9728   12.7848, 35 1W5   19.05236   APPLCERT   19861041   0.000000   \$1248 W 1471 ANSL1 35 1W5   19.05160   0.000000   \$1248 W 1471 ANSL1 35 1W5   19.05160   0.000000   \$1248 W 1471 ANSL1 35 1W5   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| 3S 1W14<br>3S 1W14<br>3S 1W14<br>S 1W 5   | 1W35<br>1W35<br>1W 2<br>W16  | S 2W35<br>1W27<br>1W29<br>2W34   | 2W34<br>2W34<br>2W34   | 3S 2W34<br>L 3S 2W34<br>3S 2W33                             | 3S 2W34<br>3S 2W33<br>2W33                                       | 3S 2W33<br>3S 2W34                             | 3S 2W34<br>2W33<br>3S 2W34        | 3S 2W34<br>W33                 | 3S 2W34<br>3S 2W34     | 2W34<br>2W33           | 3S 2W34<br>2W33<br>3S 2W34       | 3S 2W34<br>2W33                | 3S 2W34<br>2W33                | 3S 2W33<br>L 3S 2W34     | 33.3                         | 3S 2W33          | 3S 2W33      | 2W33<br>3S 2W33                           | 2W34             | 3S 2W34<br>2W33      | 3S 2W34                | 3S 2W33<br>3S 2W33   |
|   | SL 3S<br>IL 2S<br>SL 3S<br>SL 3S 1   | SL 3S<br>L 3S 1<br>L 3S 1  | 38 88 88   | L 3S 1  |  |  |                                   | N                              |                        |                        | ~ ~ ~                            |                                | St 3S                          | ۳ n                      | S 2W3                        | SL 3S            | SL 3S        |   |                  |                      |                        | 」 ຕ 🗀                |
| 150 SWSL 3S 1W1<br>1177 W4SL 3S 1W1<br>1177 W4SL 3S 1W1<br>50 NESL 3S 1W 5  | 3550 NESL 3S 1W20<br>400 S4SL 2S 1W35<br>141 SWSL 3S 1W 2<br>80 S4SL 3S 1W16                   | 175 SWSL 3S 2W35<br>90 N4SL 3S 1W27<br>1609 S4SL 3S 1W29<br>27 S4SL 3S 2W34                          | 100 S4SL<br>27 S4SL<br>100 S4SL<br>27 S4SL   | 27 S4SL 3S 2W34<br>7 1450 NESL 3S 2W34<br>1050 E4SL 3S 2W33 | 2400 SWSL<br>2000 SWSL<br>E4SL 3S                                | E4SL 3S 2W33<br>E4SL 3S 2W33<br>2300 SWSL 3S 2 | 1400 NWSL<br>E4SL 3S<br>1450 NESL | 2300 SWSL 3S 2<br>E4SL 3S 2W33 | 1450 NESL<br>2300 SWSL | 1400 NWSL<br>2000 SWSL | 2400 SWSL 3S 2<br>E4SL 3S 2W33   | 1450 NESL 3S 2<br>E4SL 3S 2W33 | 1450 NESL 3S 2<br>E4SL 3S 2W33 | 1050 E4SL 3<br>2300 SWSL | E4SL 3S 2W33<br>E4SL 3S 2W33 | 2000 SWSL 3S 2W3 | 1500 SWSL    | 950 E4SL 3S 2W33<br>1500 E 2000 SWSL 3S 2 | 1500 W 1450 NESL | 1400 NWSL<br>E4SL 3S | 2400 SWSL<br>1450 NFSI | 1050 E4SL 3          |
| . — —   | •  | _  | <del></del>  | <del>-</del>  |  | - 0  | ≷ 11.                             | (1                             | *.*                    |                        |                                  | _                              | _                              | •                        | ш                            |                  |              | ) E 20                                    | W 14             | H (                  | 1900 E 24              | E 105                |
|   |  | N 2190 E<br>S 1560 E<br>N 903 E<br>N 1096 E  |  |   | N 1900 E<br>N 1500 E<br>S 950                                    |  | S 1500 E<br>S 1250<br>S 1500 W    |                                |                        |                        | N 1900 E<br>S 50<br>N 1275 W     |                                | S 1500 W<br>S 950              | S 950 E<br>N 1000 E      | s 50<br>S 1250               |                  | • •          | s z<br>505                                | • •              | S 1500 E<br>S 1250   | N 1900 E<br>S 1500 W   | - ''                 |
| 0.02500<br>0.01500<br>0.25000<br>0.03300  |  | 0.01100<br>0.01500<br>0.01500<br>0.00000   |  |   | 3.79300<br>3.79300<br>3.79300                                    |  | 3.79300<br>3.79300<br>3.79300     |                                |                        |                        | 2.58000<br>2.58000<br>0.01500    |                                | 6.37300                        | 2.58000                  | 2.58000                      |                  |              | 6.37300                                   |                  | 2.58000              | 6.37300                |                      |
| 3333  | 0000   | 3 3 3 3  | 0000   | 3.3.7.  | 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6                         | 9.69.69  |                                   | 6.3                            | 2.5                    | 2.5                    | 2 2 2                            | 6.3                            | 6.3                            | 2.5                      | 2.2                          | 2, 6             | 9.69         | 6.3                                       | 2.5              | 2.6                  | 6.3                    | 2 2 2                |
| 9 28 22   | 8888   | 23<br>01   | 2882   | 118   | - C C C C  |  |                                   |                                |                        | 2 9 2                  | 9 2 8                            | 2 2 2                          |                                |                          | <br>                         | 2 2 2            |              | <u></u>                                   |                  |                      | 2 9                    | S 12 8               |
| 19850705<br>19640805<br>19641228<br>19200000  | 19730530<br>19340000<br>19060000<br>19241000   | 191200<br>19590123<br>19760819<br>19970501   | 19980121<br>19770930<br>19770930   | 9740718<br>9541117<br>9541117                               | 9541117<br>9541117<br>9541117<br>9541117                         | 954111   | 1954111<br>19541117<br>19541117   | 19721017<br>19721017           | 19721017<br>19721017   | 19721017<br>19780306   | 19780306<br>19721017<br>19200000 | 9721017<br>9721017             | 19721017<br>19721017           | 19780306<br>19780306     | 19780306<br>19780306         | 19721017         | 9721017      | 19721017<br>19721017                      | 19721017         | 19721017<br>19721017 | 19721017               | 19721017<br>19780306 |
|   |  | <u>, , , , , , , , , , , , , , , , , , , </u>  |  |   |  |  |                                   |                                |                        | <del></del>            |                                  | - +-                           |                                |                          | <del></del>                  |                  | - —          |   |                  |                      | <del></del>            | - 4- 4-              |
| APPLLAPD<br>APPLLAPD<br>APPLLAPD<br>UGWCDIS   | APPLLAPD<br>UGWC<br>UGWC<br>UGWC   | UGWCDIS<br>APPLNPR<br>APPLCERT<br>TEMPAPP  | APPLAPP<br>APPLAPP<br>APPLAPP<br>APPLAPP   | APPLCERT<br>APPLLAP<br>APPLLAP                              | APPLLAP<br>APPLLAP<br>APPLLAP                                    | APPLLAP<br>APPLLAP                             | APPLLAP<br>APPLLAP<br>APPLLAP     | APPLLAP<br>APPLAPP             | APPLLAP<br>APPLAPP     | APPLLAP<br>APPLWD      | APPLWD<br>APPLLAP<br>UGWC        | APPLAPP<br>APPLLAP             | APPLAPP<br>APPLAPP             | APPLWD<br>APPLWD         | APPLWD<br>APPLWD             | APPLLAP          | APPLAPP      | APPLWU<br>APPLAPP                         | APPLIAP          | APPLAPP<br>APPLLAP   | APPLAPP<br>APPI WD     | APPLLAP<br>APPI WD   |
| 4 4 4 8<br>8  | 4888   | A P E  | 4 4 4 4<br>4 4 4 4   | AAA   | A A A  | 44   | 4 4 4<br>4 4 4                    | A A                            | <u> </u>               | 4 4 S                  | A A 2                            | A A                            | A A                            | A A                      | 4 <u>4</u>                   | A A              | Z Z i        | <u> </u>                                  | A S              | <u> </u>             | A A                    | A A                  |
| 59 5130<br>59 1731<br>59 1739<br>59 3089  | 59 3954<br>59 3797<br>59 2351<br>59 1838   | 59 2916<br>59 1406<br>59 4312<br>59 5565   | 59 5571<br>59 5571<br>59 5571<br>59 5571   | 59 4073<br>59 1249<br>59 1249                               | 59 1249<br>59 1249<br>59 1249<br>50 1249                         | 59 1249<br>59 1249                             | 59 1249<br>59 1249<br>59 1249     | 59 4619<br>59 1249             | 59 4619<br>59 1249     | 59 4619<br>59 4619     | 59 4619<br>59 4619<br>59 3177    | 59 1249<br>59 4619             | 59 1249<br>59 1249             | 59 4619<br>59 4619       | 59 4619<br>59 4619           | 59 4619          | 59 1249      | 59 4619<br>59 1249                        | 59 4619          | 59 1249<br>59 4619   | 59 1249                | 59 4619<br>59 4619   |
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| _   | SQI _  | SO<br>SO<br>SO<br>SO   |  | SQ  |  |  |                                   | ₽                              | ₽                      |                        | 2 <u>0</u> 0                     | Ω                              |                                | <u> </u>                 | <u>♀</u> ♀                   | ₽                | 9            | ≘   | ₽                | <u>_</u>             | ≘                      |                      |
| 9   | _  |  |  |   |  |  |                                   |                                |                        |                        |                                  |                                |                                |                          | i                            |                  |              |   |                  |                      |                        |                      |
| ORATI   |  |  | 4<br>4   |   |  |  |                                   |                                |                        |                        |                                  |                                |                                |                          |                              |                  |              |   |                  |                      |                        |                      |
| CORP  |  |  |  |   |  |  |                                   |                                |                        |                        |                                  |                                |                                |                          |                              |                  |              |   |                  |                      |                        |                      |
| RES IN  |  |  |  |   |  |  |                                   |                                |                        |                        |                                  |                                |                                |                          |                              |                  |              |   |                  |                      |                        |                      |
| DUSTF   |  |  |  |   |  |  |                                   |                                |                        |                        |                                  |                                |                                |                          |                              |                  |              |   |                  |                      |                        |                      |
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| -<br>SD STE   | DARLI  | S.<br>ARLEN  | YCE A<br>YCE A<br>YCE A  |   |  |  |                                   |                                |                        |                        |                                  |                                |                                |                          |                              |                  |              |   |                  |                      |                        |                      |
| CLARK, NEAL<br>CONDIE, VERNON ELDEAN<br>CONDIE, VERNON ELDEAN<br>CONTINENTAL COPPER AND STEEL INDUSTRIES INCORPORAT | COOK, GRANT O. (DR.)<br>COOK, JOSEPH E.<br>COOPER, NEWELL J.<br>COOPER, WILLIAM A. AND DARLENE | CKANE, J. KEEU AND KAE S.<br>CRUMP, STANLEY R. AND ARLENE J<br>DAINES, VAUGHN R.<br>DANSIE, A. BRENT | A. BRENT AND ALYCE ANN<br>A. BRENT AND ALYCE ANN<br>A. BRENT AND ALYCE ANN<br>A. BRENT AND ALYCE ANN |   |  |  |                                   |                                |                        |                        |                                  |                                |                                |                          |                              |                  |              |   |                  |                      |                        |                      |
| SON EI<br>SON EI<br>COPF  | COOK, GRANT O. (DR.) COOK, JOSEPH E. COOPER, NEWELL J. COOPER, WILLIAM A. A.                   | LEY R  | ENT A<br>ENT A<br>ENT A  | UR H.   | பயுயய  | шши  | л ш ш                             | т<br>ш<br>ш                    | ゴゴ:<br>ய ய i           | ii:                    | i i i                            | ΗΉ                             | III<br>IIIII                   | H<br>H<br>H              | II II<br>II III              | ijΙ              | : 王:<br>: 田: | i I<br>u w                                | жэ<br>шч         | i i                  | т<br>ш                 | i i i                |
| CLARK, NEAL CONDIE, VERN CONDIE, VERN CONTINENTAL   | COOK, GRANT O. COOK, JOSEPH E COOPER, NEWELI COOPER, WILLIAN                                   | CKANE, J. KEED ANI<br>CRUMP, STANLEY R.<br>DAINES, VAUGHN R.<br>DANSIE, A. BRENT                     |  | , ARTHUR H<br>, JESSE<br>, JESSE                            | JESSE<br>JESSE<br>JESSE  | JESSE<br>JESSE                                 | JESSE<br>JESSE                    | , JESSE H<br>, JESSE H         | JESSE                  | JESSE I                | JESSE<br>JESSE<br>JESSE          | JESSE<br>JESSE                 | JESSE I<br>JESSE I             | JESSE H<br>JESSE H       | JESSE I<br>JESSE I           | JESSE            | JESSE        | JESSE                                     | JESSE            | JESSE                | JESSE                  | JESSE<br>JESSE       |
| A B B B B B B B B B B B B B B B B B B B   | 00, 'C   | ANNES,<br>ANNES,<br>ANSIE,   | DANSIE,<br>DANSIE,<br>DANSIE,<br>DANSIE,   |   | DANSIE, JESSE<br>DANSIE, JESSE<br>DANSIE, JESSE<br>DANSIE, JESSE |  | DANSIE,<br>DANSIE,                | DANSIE,<br>DANSIE,             | DANSIE,<br>DANSIE,     | DANSIE,<br>DANSIE,     |                                  |                                |                                |                          |                              | DANSIE,          |              | DANSIE,                                   | DANSIE,          | DANSIE,<br>DANSIE,   | DANSIE,<br>DANSIE.     | DANSIE,<br>DANSIE    |
| 3000  | 0000   |  |  |   |  |  |                                   | ~ ~                            |                        |                        |                                  |                                |                                |                          |                              |                  |              |   |                  | 1 4                  | 9                      | 9                    |

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|-----------|----------|------------|-----------|-----------|---------------------------------------|----------------------|-------------|-------------|----------|----------|-------------|------------------|-------------------|-------------|----------|--------------|-------------|------------------|-----------|--------------|-------------|-----------|----------------------|-----------|-------------|---------------|------------------|----------------------------|--------------------|-----------------|-------------|-------------|-------------------|-----------|-----------------------|-----------------|-------------------|--------------------|---------------------------|--------------------------------|-----------------|-----------------|-------------------------------------|-------------------|---------------------|----------------------------|-------------------|-------------------------|--------------------|------------------------------------|-------------------|------------------------------------|
|           |          |            |           |           |                                       |                      |             |             |          |          |             |                  |                   |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  |                            |                    |                 |             |             |                   |           |                       |                 |                   |                    |                           |                                |                 |                 |                                     |                   |                     |                            |                   |                         |                    |                                    |                   |                                    |
| 59        | 29       | 29         | 29        | 20        | 200                                   | ນ ດ                  | 29          | 59          | 59       | 59       | 29          | 59               | 59                | 59          | 59       | 29           | 29          | 29               | 29        | 29           | 29          | 26        | 26                   | 26        | 29          | 29            | 59               | 29                         | 59                 | 29              | 29          | 23          | 29                | 29        | 59                    | 59              | 50                | 2 2                | 200                       | 200                            | 59              | 29              | 29                                  | 29                | 29                  | 26                         | 23                | 20                      | 2 2                | 5 G                                | 23                | 59                                 |
| /34       |          | <b>V34</b> | /33       | 734       | 2 (                                   |                      | 33          | 34          |          | 34       | 34          | 4                | ٧34               | V34         | 34       | 83           | 33          | ٧34              | ٧34       | ٧34          | ~           | 34        | 34                   | 34        | 2           | 4             | 33               | 2                          | 2                  | 4               | 35          | 35          | 2                 | 2         | 22.5                  | ω ,             | g (               | 2                  |                           | i co                           | <b>م</b>        | 6               | _                                   | 4                 | 2                   | 34                         | 29                | <del>2</del> 2          | ر<br>ا             | 2 ≪                                | 33                | 53                                 |
| 3S 2W34   | 2W33     | 3S 2W34    | 3S 2W     | 3S 2W34   | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 3S 2W33              | 3S 2W33     | 3S 2W34     | 2W34     | 3S 2W34  | 3S 2W34     | 3 2W3            | 3S 2V             | 3S 2W34     | 3S 2W34  | 3S 2W33      | 3S 2W33     | 3S 2W34          | 3S 2W34   | 3S 2W34      | 4S 2W 3     | 3S 2W34   | 3S 2W34              | 3S 2W34   | 4S 2W 2     | 3S 1W14       |                  |                            |                    |                 | 2S 1W35     | 2S 1W35     |                   |           | 3S 1W22               |                 | S 1W29            | 2 1002             | 57A.                      | 3S 1W16                        | 3 1W29          |                 | •                                   |                   |                     |                            |                   |                         | 35 1W29            |                                    |                   |                                    |
|           | E4SL 3S  |            |           | -         | 44 NWSL 43 ZW 3                       | 45 L                 | . ــ        |             |          | 4SL 3    | 4SL 3       | 181 38           | 1395 NESL 3S 2W34 | IWSL        | • •      | :SL 38       | 4SL 3       |                  |           |              |             |           |                      |           | •           |               |                  |                            |                    | 4SL 3S          |             |             |                   |           |                       | ,               |                   | 45L 55             | ۲ <u>م</u><br>کا <u>ب</u> | 1 <u>2</u>                     |                 |                 | VSL 3S                              |                   |                     | ٠.                         |                   |                         |                    |                                    |                   |                                    |
| 1400 NWSL | E4S      | 1450 NESL  | 1500 SWSL | 2400 SWSL | 44 NV                                 | 1350 W4SL            | 2344 W4SL   | 872 SWSL    | 5 W4S    | 492 S4SL | 1167 S4SL   | 327 S4SL 3S 2W34 | 1395              | 1358 NWSL   | 244 S4SL | 7 SESL       | 1330 W4SL   | 1425             | 1372 NESL | 2614 NESL    | 48 N4SL     | 1950 SESL | 100 S4SL             | 1850 SESL | 525 NWSL    | 133 W4SL      | 1650 SESL        | 600 N4SI                   | 2665 E4SL          | 460 W4SL        | 145 SWSL    | 260 SWSL    | 168 S4SL          | 168 S4SL  | 1645 S4SL             | 730 N4SL        | 145 W4SL          | 001                | 33 W45L 33 1W29           | 14 W4SI                        | 590 W4SL        | 590 W4SL        | 47 SWSL                             | 537 NESL          | 445 E4SL            | 350 SESL                   | 1030 S4SL         | 1235 N4SL               | 193 S4SE           | SOS SWSI                           | 550 SESI          | 180 S4SL                           |
| 1500 E    |          | 2600 W     | 2300 E    | 1900 E    |                                       | 7.08 E               |             | 1239 E      | 52 E     | 2059 W   | 279 W       |                  |                   | 1363 E      |          | 1412 W       | 740 E       | 1428 W 1425 NESL | 2210 W    | 1347 W       | 837 W       | 300 W     | 1300 W               | 350 W     |             | 270 E         | 418 W            | 1910 W                     |                    |                 | 900 E       | 606 E       | 1276 E            | 1276 E    | 187 W                 | 1300 W          | 635 E             |                    | ь 4<br>П 7<br>П           | 524 F                          |                 |                 | 288 E                               | 105 W             | 302 W               | _                          |                   |                         | 2202 E             | 125 E                              | 345 W             | 507 W                              |
| ဟ         | တ        | တ          | z         | z         | 0 0                                   | n v                  | S           | z           | တ        | z        | z           | z                | တ                 | တ           | z        | z            | တ           | S                | S         | Ø            | တ           | z         | z                    | z         | Ś           | S             | Z                | Ś                          | S                  | S               | z           | z           | z                 | z         | Z                     | တ               | s c               | n c                | n u                       | ) Z                            | : v             | ဟ               | z                                   | z                 | z                   | z                          | z                 | ဟ :                     | z                  | nΖ                                 | <u> z</u>         | z                                  |
| 2.58000   | 6.37300  | 2.58000    | 2.58000   | 2.58000   | 00/201                                | 1.62700              | 1.62700     | 1.62700     | 1.62700  | 1.62700  | 1.62700     | 1.62700          | 1.62700           | 1.62700     | 1.62700  | 1.62700      | 1.19000     | 1.62700          | 1.62700   | 1.62700      | 1.62700     | 0.01500   | 0.0000.0             | 0.01500   | 0.01500     | 0.01500       | 0.01500          | 0.01500                    | 1.00000            | 0.04500         | 0.02200     | 0.22300     | 2.00000           | 1.00000   | 0.04500               | 0.01500         | 0.01500           | 0.01500            | 0.01300                   | 00000                          | 0.01500         | 0.01500         | 0.03000                             | 0.01500           | 0.22200             | 0.01500                    | 0.01500           | 0.01500                 | 0.01500            | 00/90.0                            | 0.01500           | 0.01500                            |
|           |          |            |           |           |                                       |                      |             | Ì           |          |          |             |                  |                   |             |          |              |             |                  |           |              | Ì           | _         | _                    |           | _           | _             |                  | _                          |                    | _               | _           |             |                   | ·         |                       |                 |                   |                    |                           |                                | _               |                 | _                                   |                   |                     |                            |                   |                         |                    |                                    |                   |                                    |
| 306       | 017      | 306        | 017       | 017       | 971                                   | 27.08                | 728         | 728         | 1728     | 728      | 728         | 728              | 728               | 728         | 728      | 728          | 117         | 728              | 728       | 728          | 728         | 228       | 104                  | 318       | 107         | 615           | 511              | 322                        | 322                | 109             | 000         | 919         | 122               | 426       | 000                   | 701             | 305               | 877                | 423                       | 5 5                            | 619             | 1621            | 1222                                | 712               | 000                 | 80/                        | )422              | 9719                    | 902                | 424                                | 015               | 9408                               |
| 19780306  | 19721017 | 19780306   | 19721017  | 19721017  | 19900720                              | 19980728             | 19980728    | 19980728    | 19980728 | 19980728 | 19980728    | 19980728         | 19980728          | 19980728    | 19980728 | 19980728     | 19541117    | 19980728         | 19980728  | 19980728     | 19980728    | 19830228  | 19930104             | 19810318  | 19741107    | 19790615      | 19940511         | 19780322                   | 19630322           | 19821109        | 19020000    | 19780919    | 19580122          | 19620426  | 19060000              | 19860701        | 19620305          | 19640228           | 19/90423                  | 19700412                       | 19850619        | 1990062         | 19770222                            | 19710712          | 19210000            | 19740708                   | 19770422          | 19770719                | 19610605           | 19/20424                           | 19921015          | 19760408                           |
|           | <u>o</u> | 0          | يه        | ء<br>مي 5 | ¥ 2                                   | ¥ 4                  | ₽           | ΑAP         | ΑP       | ΑĀ       | ΙΑΡ         | ΙΑΡ              | ΙΑΡ               | ΑAΡ         | ΑÞ       | ΙΑΡ          | ERT         | ΨAΡ              | ΑÞ        | ΑÞ           | ΑÞ          | یه        |                      | G,        | O.          | ERT           | :                | FR                         | RI                 | ۵,              |             | RT          | ERT               | ERT       | Sic                   | FRT             | ERT               | ر<br>ا<br>ا        | <u> </u>                  |                                | <del>ار</del> م | P.              | ERT                                 | ERT               | SIS                 | PD<br>C                    | ERT               | R                       |                    | <u>ا</u> ال                        | 2 a.              | ≅RT                                |
| APPLWD    | APPLAPP  | APPLWD     | APPLLAP   | APPLLAP   | APPLOINAP                             | APPLUNAP<br>APPLUNAP | APPLUNAP    | APPLUNAP    | APPLUNAP | APPLUNAP | APPLUNAP    | APPLUNAP         | APPLUNAP          | APPLUNAP    | APPLUNAP | APPLUNAP     | APPLCERT    | APPLUNAP         | APPLUNAP  | APPLUNAP     | APPLUNAP    | APPLLAP   | FIXDAPP              | APPLLAPD  | APPLLAPD    | APPLCERI      | FIXDLAP          | APPLCERT                   | APPLCERT           | APPLLAP         | UGWC        | APPLCERT    | APPLCERT          | APPLCERI  | NGWCDIS               | APPLCERT        | APPLCERT          | APPLLAPU           | APPLCERI                  | APPI WD                        | APPLAPP         | APPLLAPD        | APPLCERT                            | APPLCERT          | UGWCDIS             | APPLLAPD                   | APPLCERT          | APPLCERT                | APPLCERT           | APPLLAPU                           | FIXDAPP           | APPLCERT                           |
| Г         |          |            |           |           |                                       |                      |             |             |          | _        |             |                  |                   |             |          |              |             |                  |           |              | -           |           |                      |           |             |               |                  |                            |                    |                 |             |             |                   |           |                       |                 |                   |                    |                           | _                              |                 |                 |                                     |                   |                     |                            |                   |                         |                    |                                    |                   |                                    |
| 59 4619   | 59 1249  | 59 4619    | 59 46 19  | 59 4619   | 29 1200                               | 59 1200              | 59 1200     | 59 1200     | 59 1200  | 59 1200  | 59 1200     | 59 1200          | 59 1200           | 59 1200     | 59 1200  | 59 1200      | 59 1200     | 59 1200          | 59 1200   | 59 1200      | 59 1200     | 59 4928   | 59 5383              | 59 4807   | 59 4100     | 59 4729       | 59 5440          | 59 4624                    | 59 1694            | 59 4917         | 59 2815     | 59 4674     | 59 1352           | 59 1671   | 59 2281               | 59 5185         | 59 1661           | 59 1719            | 59 4/1/                   | 59 422                         | - 7             | 59 4963         | 59 4433                             | 59 3813           | 59 2411             | 59 4069                    | 59 4462           | 59 4538                 | 59 1612            | 59 3844                            | 59 5374           | 59 4226                            |
|           |          | 4,         | 4,        | 4, 4      | .,.                                   |                      |             |             |          |          |             |                  | <del></del>       |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  |                            |                    |                 |             |             |                   |           |                       |                 |                   |                    | <u></u>                   | <del></del>                    |                 |                 |                                     |                   |                     |                            |                   |                         |                    |                                    |                   |                                    |
| 9         |          | ₽          | <u>_</u>  | و د       | 2 2                                   | 3 2                  | DS          | DS          | DS       | DS       | SO          | DS               | SO                | SO          | SO       | SO           | S           | OS               | Sa        | OS           | S           | SQI       | SQI                  | IDS       | Ω           | _             | IDS              | IDS                        | S                  | · <del>-</del>  | S           | _           | s                 | <u>s</u>  |                       | SQI             | SQ                | - 4                | 20.0                      | <u>2</u> _                     | _               | SQI             | _                                   | SQ                |                     | SQ                         | IDS               | ₽                       | <u>8</u>           |                                    | SCI               | SQ                                 |
|           |          |            |           |           |                                       |                      | ,           |             |          |          |             |                  |                   |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  |                            |                    |                 |             |             |                   |           |                       |                 |                   |                    |                           |                                |                 |                 |                                     |                   |                     |                            |                   |                         |                    |                                    |                   |                                    |
|           |          |            |           |           |                                       |                      |             |             |          |          |             |                  |                   |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  |                            |                    |                 |             |             |                   |           |                       |                 |                   |                    |                           |                                |                 |                 |                                     |                   |                     |                            |                   |                         |                    |                                    |                   |                                    |
|           |          |            |           |           |                                       |                      |             |             |          |          |             |                  |                   |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  |                            |                    |                 |             |             |                   |           |                       |                 |                   |                    |                           |                                |                 |                 |                                     |                   |                     |                            |                   |                         |                    |                                    |                   |                                    |
|           |          |            |           |           |                                       |                      |             |             |          |          |             |                  |                   |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  |                            |                    |                 |             |             |                   |           |                       |                 |                   |                    |                           |                                |                 |                 |                                     |                   |                     |                            |                   |                         |                    |                                    |                   |                                    |
|           |          |            |           |           |                                       |                      |             |             |          |          |             |                  |                   |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  |                            |                    |                 |             |             |                   |           |                       |                 |                   |                    |                           |                                |                 |                 | UST)                                | •                 |                     |                            |                   |                         |                    | _                                  |                   | u.                                 |
| -         |          |            |           |           |                                       |                      |             |             |          |          |             |                  |                   |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  | >                          |                    |                 |             |             |                   |           |                       |                 |                   |                    |                           |                                |                 |                 | LY TR                               |                   |                     | ⋖                          |                   |                         |                    | O. (JR.)                           |                   | ROLYN                              |
|           |          |            |           |           |                                       |                      |             |             |          |          |             |                  |                   |             |          |              |             |                  |           |              |             |           |                      |           |             |               |                  | AYEV                       | <br> -<br> -       |                 |             |             |                   |           |                       |                 |                   |                    |                           |                                |                 |                 | (FAMI                               |                   |                     | <b>RBAR</b>                |                   | )ALE                    |                    | RMA                                |                   | ID CAF                             |
|           |          |            |           | ŽĮ.       |                                       | NET Y                | NEY         | NEY         | NEY      | NEY      | NEY         | NEY              | )NEY              | )NEY        | NEY      | )NEY         | NEY         | )NEY             | SNEY      | NEY          | )NEY        | _         | AUL                  |           |             |               |                  | AND M                      | ΕD                 |                 |             |             | ιή                | (r)       | VOIL                  |                 | >                 | ⊠                  |                           |                                |                 |                 | CE W.                               |                   | ი<br>ი              | ND BA                      | . :               | AALD [                  | DH.                |                                    | <u>v</u>          | I. AN                              |
| EH.       | in<br>T  | Щ<br>Н     | Ή         | JESSE H.  | TENDON TROOP                          | JESSE RODNEY         | JESSE RODNE | JESSE RODNE | E RODNE  |          | JESSE RODNE | JESSE RODNE      | E RODNE           | JESSE RODNE | E RODNE  | JESSE RODNEY | JESSE RODNE | JESSE RODNEY     | ie ROC    | JESSE RODNE) | JESSE RODNE | KENT ALMA | ARD P                |           |             |               | ш<br>Z           | IRY H                      | PORAT              | /ID L.          |             |             | NLEY (            | STANLEY G | POR/                  | л.<br>Н         | NARD              | SNHAR              | AN .                      | L V                            | . ≥<br>. ≥      | × O             | AREN                                | EITH A            | RNEST               | <b>JERT A</b>              | VETH L            | H, RO                   | ONAR               | A 4                                | NAY AND           | SEP!                               |
| JESSE H   | , JESSE  | -          | -         | -         | -                                     | _                    |             |             | JESSE ;  |          |             |                  |                   | -           | , JESSE  |              | -           | -                | -         | -            | -           |           | , RICH               | TOM       | BILL        | F. VAL        | ALIN.            | Z HEY                      | NCOR               | W. DA           | AMES        | 4MES        | J, STA            | STA,      | X CO                  | , sco           | N, BEF            | N, BEF             | Z                         | י אבן<br>עוני                  | RONAL<br>RONAL  | RONA            | EN. C                               | EN, KI            | ON, E               | T, ROE                     | , KEN             | WORT                    | EN, LE             | CHAR                               | 2004.             | ER, C                              |
| DANSIE    | DANSIE   | DANSIE     | DANSIE    | DANSIE    | TIONS.                                | DANSIE               | DANSIE      | DANSIE      | DANSIE   | DANSIE   | DANSIE      | DANSIE           | DANSIE            | DANSIE      | DANSIE   | DANSIE       | DANSIE      | DANSIE           | DANSIE    | DANSIE       | DANSIE      | DANSIE    | DANSIE, RICHARD PAUI | DANSIE.   | DAUSE, BILL | DAVIS, F. VAL | DE LIA, JULIAN E | DEASON, HENRY H AND MAYE W | DEE'S INCORPORATED | DEGRAW, DAVID L | DICK, JAMES | DICK, JAMES | DIMOND, STANLEY G | DIMOND,   | DIXIE SIX CORPORATION | рохеу, ѕсотт т. | DUTSON, BERNARD W | DUTSON, BERNHARD W | DOTSON, LYMAN W           | EGBERI, KELIM<br>EGBEDT SIISAN | EGBENT, SOSAN   | EKINS, RONALD W | ELLEFSEN, CLARENCE W. (FAMILY TRUST | ERICKSEN, KEITH A | ERICKSON, ERNEST G. | ERNEST, ROBERT AND BARBARA | FAILOR, KENNETH L | FARNSWORTH, RONALD DALE | FERAGEN, LEONARD H | FIFE, RICHARD A. AND NORMA D. (JR. | FITZGERALD DENNIS | FLETCHER, JOSEPH L. AND CAROLYN F. |

| FOOTHILL WATER COMPANY                   |            | 59 1608            | APPLEXP  | 19901109  |              |          | 758 E 1350 W4SL 3S 2W33 |      |                       |
|--|------------|--------------------|--|-----------|--------------|----------|-------------------------|------|-----------------------|
| FOOTHILLS WATER COMPANY                  | S          | 59 38/9            | APPLEXP  | 19920914  | 0.00000      | `        | 330 W4SL 3S 2W33        | 23   |                       |
| FORWARD STANFORD M.                      | Š          | 59 4250            | APPI CERT  | 1980000   |              |          | 170 W4SI 3S 1W14        |      |                       |
| FRAUGHTON, EDWARD J.                     | }          | 59 5529            | APPLAPP  | 19800314  |              |          |                         |      |                       |
| FREEMAN, ALONZO                          |            | 59 1614            | APPLLAPD   | 19691121  | 3.00000 N    | 75 E     | 75 SWSL 3S 2W24         | 29   |                       |
| FULLMER, GENE L. & DELORES H.            | S          | 59 4364            | newc   | 19000000  |              | 1785 E   | 1578 W4SL 3S 1W11       | _    | · ·                   |
| FULLMER, GENE L. & DELORES H.            | ı.s        | 59 4363            | newc   | 19030000  |              | 1755 E   | 1655 W4SL 3S 1W11       | _    |                       |
| FULLMER, LAWRENCE W. & MARY E.           | SQI        | 59 4298            | ᇤ  | 19170000  |              |          | 300 SESL 3S 1W 4        |      |                       |
| GAILEY, GRACE E.                         | !          | 59 2283            | UGWCDIS  | 18960000  |              | •••      |                         | _    |                       |
| GAILEY, SHARON                           | ۱ ۵        | 59 4903            | APPLLAPD   | 19860703  |              |          | 8                       |      |                       |
| GARDNER, DAVID I & GAYLE P.              | <u>∩</u> ' | 59 1551            | APPLCERT   | 19690229  |              |          |                         |      |                       |
| GARDNER, DUNCAN R.                       | ທຸ         | 59 3076            | newc   | 19200000  |              |          | N C                     |      |                       |
| GARDNER, DONCAN K.                       | ⊒ :        | 59 2429            | OGWC   | 19220600  |              |          | 3 5                     |      |                       |
| GARDINER, EDWIN F. & JOHN R.             | <u>v</u> c |                    | OGWC<br>PION<br>PION<br>PION<br>PION<br>PION<br>PION<br>PION<br>PION | 19340000  | _            | 1008 E   | 60 NWSL 3S 1W Z         | 60 G |                       |
| GARDNER, TOWARD D.                       | <u> </u>   | 39 388<br>50 2526  | ALCIVIL  | 19431029  | 0.01500      | 290 W    | 0 0                     |      |                       |
| CANDINER, JOHN P. AND EDWIN F.           | ַ ב        | 39 2320<br>50 2525 | 2000   | 18920000  |              | 1600     | 3 6                     |      |                       |
| GARDNER, 30 III II. CAD EDWIN .          | 2 -        | 59 4285            |  | 19340000  |              |          | 3 6                     |      |                       |
| GARDNER BAI PH W                         | 80         | 59 2371            | I GWC  | 1916000   |              | 755 F    | 23                      |      |                       |
| GASSER ROBERT                            | } v.       | 59 3648            | APPI CERT  | 19710226  |              | 279 W    | 3 8                     |      |                       |
| CHOCK NATHAN R AND GRACE                 | )          | 59 2952            | I GWCDIS   | 1900      |              | 1525 W   | S &                     |      |                       |
| GIEFORD JON TROY                         | O SCI      | 59 1091            | APPI CERT  | 19530313  |              |          | 3 6                     |      |                       |
| GII BERT DONAL D. R. SUSAN J.            |            | 59 1031            | APPI CERT  | 19620619  |              |          | 38                      |      |                       |
| GILES I FF A AND KATHY                   | S          | 59 5070            | APPLI APD  | 19841114  |              | 250 E    | 38                      |      |                       |
| GIERO, FIEL COURSE INC.                  | 2          | 59 4189            | APPI CERT  | 19591105  |              | 678 F    | 38                      |      |                       |
| GIENMOOR GOLF COLIRSPENC                 |            | 59 4483            | APPI CERT  | 19740418  |              | 678 F    | 38                      |      |                       |
| CEENIMOON COEL COOLOR INC.               |            | 50 1521            | APPI CERT  | 10501105  |              | 10 E     | <u>ي</u><br>ي           |      | -                     |
| CLEMMONIA COLI CONTROL INC.              | _          | 50 1521            | APPI CEPT  | 10501105  | _            | 222 E    | -                       |      |                       |
| GLEININGON GOET COONSE INC.              | ٥          | 50 2354            | וופאנט   | 19250000  |              |          | 339 NESI 3S 1W28        |      |                       |
| CLOVER, GEOFFREI                         | 20         | 50 4027            |  | 19230000  |              |          | 3 %                     |      |                       |
| COCORENIZ, NODOLTH E. & DEINIGE          | י פ        | 50 3323            | OWE!   | 1906000   |              |          | 3 %                     |      |                       |
| GOODINGE, SOMEOWIES                      | )<br>      | 59 5085            | APPI APP   | 19970616  |              |          |                         |      |                       |
| GONDON, DAL & NEATHA                     | S.C.       | 59 5085            | APPI CERT  | 19850306  |              |          | 550 SESL 3S 2W33        |      |                       |
| GONDON, DAL & NEALLY                     | S C        | 59 5364            | FIXUIAP  | 19920825  |              | 30 W     |                         |      |                       |
| GRAHAM SHIRI FNE                         | SCI        | 59 3986            | APPLAPP  | 19780128  |              | 1500 E   |                         |      |                       |
| COSTINUO MARK H                          | S          | 59 2147            | I IGWC   | 1896000   | _            |          | 315 E4SL 2S 1W34        |      |                       |
| GREENWOOD MARK H                         | S 0        | 59 2604            | UGWC   | 19190000  |              |          | 500 E4SL 2S 1W34        |      |                       |
| GUSS ABE                                 | 0          | 59 328             | APPLCERT   | 19510124  |              | 450 E    | 396 S4SL 2S 1W27        | 2 29 | - ·· · <del>-</del> · |
| GYGI, WALLACE NEIL                       | SOI        | 59 4537            | APPLCERT   | 19770719  | 0.02200      | 1 1183 E | 204 SWSL 3S 1W11        |      | <del></del>           |
| HADLEY, MARIE                            | 으          | 59 4390            | APPLCERT   | 19800818  |              |          | 771 SESL 3S 1W 9        |      |                       |
| HAL K. LARSEN AND SONS CONSTRUCTION INC. | IDS        | 59 4323            | APPLCERT   | 19761004  |              |          | 967 N4SL 3S 1W3         |      |                       |
| HALL, JACK W.                            |            | 59 3814            | APPLLAPD   | 19710712  |              | 200 €    |                         |      |                       |
| HAM, BILLY W. AND GRACE                  | SOL        | 59 4143            | APPLCERI   | 19/50521  |              | 230 E    | 355 N45L 35 1W20        | 2 2  |                       |
| HAMILTON PROPERTIES L.C., LOWELL W.      |            | 59 5582            | APPLAPP  | 19980617  |              |          | δ.<br>(1)               |      |                       |
| HAMILTON PROPERTIES L.C., LOWELL W.      |            | 59 5582            | APPLAPP  | 19980617  |              | V 400 W  | 1320 INESIL 45 2W 3     |      |                       |
| HAMILTON, LOWELL AND MARY L.             |            | 59 2720            | APPLAPP  | 19980617  | 0.0000       |          | δ. δ.                   |      |                       |
| HAMILION, LOWELL AND MARY L.             |            | 29 27 20           |  | 1990001/  | _            |          | 2 4                     |      |                       |
| HAMILION, LOWELL AND MARY L.             | ٥          | 59 27 20           | A DEL CEPT   | 1987,0000 |              |          | 5 4                     |      |                       |
| HAMILION, KALPH                          | 2 5        | 59 3204<br>59 995  | APPI NPP   | 19511108  |              | •        | 33                      |      | •                     |
| TANCOCK, TORNES                          | 2 2        | 50 4804            | APPI APD   | 19820601  |              |          | 38                      |      |                       |
| HANNEN, CHANCES G.                       | 2 2        | 59 4869            | APPLIAPD   | 19811230  |              |          | 38                      |      |                       |
| HANSEN, GREGORY L.                       | <u> </u>   | 59 4942            | APPLLAP  | 19830504  | 0.01500 N    | √ 400 E  | 38                      |      |                       |
| HANSEN, KEVIN                            | <u>-</u>   | 59 5096            | APPLCERT   | 19890525  | 0.04000<br>N |          |                         |      |                       |
| HANSEN, KEVIN & CAROL                    | SOI        | 59 4684            | APPLCERT   | 19781205  | 0.01500 N    |          | 33                      | 29   |                       |
| HANSEN, PAUL L. AND ROXANNE S.           | IDS        | 59 3885            | APPLCERT   | 19721031  | 0.01500 N    | N 0 N    | 8/5 SESL 35 ZW35        | 28   |                       |
|  |            |                    |  |           |              |          |                         |      |                       |

| HANSEN, PAUL LERUY                                  | 2 2           | 50 4005  | APPLLAPU       | 19830525  | 0.01500 N    | 100 W 1100 SESI                 | 1100 SESL 3S 2W33 | ရှိ ရ    |   |
|---|---------------|----------|----------------|-----------|--------------|---------------------------------|-------------------|----------|---|
| HARMAN MAURICE M                                    | SCI           | 59 1693  | APPLINAP       | 19630315  | . v          |                                 | 38                | 20       | • |
| HARMAN, MAURICE M. (ETAL)                           | )<br>)        | 59 1626  | APPLLAPD       | 19690831  | z            |                                 | 1260 S4SL 3S 1W 9 | 29       |   |
| HARPER, FRANCIS M.                                  | IDS           | 59 4414  | APPLCERT       | 19770215  | : <u>z</u>   |                                 | 4SL 3S 1W29       | 26       |   |
| HATT, THIEL F.                                      | _             | 59 5105  | APPLLAPD       | 19850604  | တ            |                                 | 38                | 23       | - |
| HAUN, ARCH L. & EVA F.                              | တ             | 59 245   | APPLNPR        | 19410529  | 0.01500 S 4: | 432 W 168 N4SL                  | 4SL 3S 1W 4       | 29       | - |
| HAUN, ARCH L. AND EVA F.                            |               | 59 2170  | NGWCDIS        | 19200000  |              | 332 W 168 N4SL                  | 4SL 3S 1W 4       | 29       |   |
| HAYMORE, BRUCE                                      | SQI           | u,       | UGWC           | 19320000  | တ            |                                 | ISL 3S 1W21       | 29       |   |
| HERRIMAN IRRIGAITON CO.                             |               |          | APPLLAPD       | 19550211  | z            |                                 | 1316 SESL 3S 2W34 | 23       |   |
| HERRIMAN PIPELINE & DEVELOPMENT CO. (HELD BY BWR)   |               | 59 16    | APPLCERT       | 19550211  | z            |                                 | SESL 3S 2W34      | 20       |   |
| HERKIMAN PIPELINE & DEVELOPMENT CO. (HELD BY BWR)   | O SGI         | 59 1212  | APPLCERT       | 19550305  | <b>z</b> :   |                                 | 33                | 26       |   |
| HERRIMAN PIPELINE AND DEVELOPMENT COMPANY           |               | 59 5258  | APPLAPP        | 19940217  | z:           |                                 | ဗ္ဗ               | 20       |   |
| HERRIMAN FIFELINE AND DEVELOPMEN! COMPANY           |               | 59 5258  | APPLAPP        | 19940217  | Z (          | -                               | SESL 3S 2W34      | 66       |   |
| HEUGHS CREEK ASSOCIATES LLC                         | SQI           | 59 2416  | UGWC           | 19300000  | s c          | w I                             | .,                | 23       |   |
| HILBERT, DEMA & GARY                                | 2 6           | 59 4964  | APPLLAPD       | 19830810  | က <u>z</u>   | 120 E 1170 W4SL                 |                   | ე.<br>ე. |   |
| INCOME INDOMAN                                      | 2 2           | 29 4636  | APPLIAPU       | 19811102  | z            | 605 E 1239 W45L                 | S S               | n (      |   |
| LOGOC, J. NONWAN                                    | 2 -           | 50 4070  | APPLCER        | 197 30300 | Z (          | 33 E 1313 3W3L                  | က<br>ဂ            | 200      |   |
| HOLDAN BOBBY DE                                     | 0 2           | 59 407 3 | APPLCER        | 19020219  | 0 2          | -                               | , S               | 200      |   |
| HOLIMAN, BOBBI JOE                                  | 201           | 59 3004  | AFFLAFD        | 19050500  | •            | 343 W 331 3E3L                  | , c               | D 4      |   |
| LOCIT MADIE   |               | 1967     | SIGNODIS       | 1040000   | 2 0          | _                               | 3 6               | 0 0      | - |
| HOOGVEIDT MADTIN M                                  | ٥             | 50 5140  | VOWCOIS<br>VOV | 1005001   | ) Z          |                                 | ວິດ               | 3 2      | - |
| HODER BOREDT  | 200           | 59 3500  | APPI CEPT      | 19690811  | 2 0          | ď                               | 3 %               | 2 2      | • |
| MOINE I KEVAN                                       | <u>.</u>      | 50 4148  | APPI CEPT      | 1905061   | ď            |                                 | 3 %               | 9 6      |   |
| HIG DN I  | 3             | 50 3452  | APPI I APD     | 19680418  | o o          | •                               | 3 6               | 0 6      |   |
| HINTEMAN COLLECTMEN O AND DATERIA L                 |               | 50 3025  | ADDI CERT      | 19730517  | 2            | JLE                             | ς<br>Σ            | 2 2      |   |
| HONIOMAN, COOKINET C. AND PATRICIATI.               | _             | 50 5525  | APPI APP       | 10061210  | . z          | ≶ د                             |                   | 2 6      |   |
| HYMAD CHAD  | <u></u>       | 59 5525  | FIVENDE        | 19961210  | 2 2          |                                 |                   | 0 0      | - |
|   | <u>-</u>      | 50 4808  |                | 10820625  | <u> </u>     | _                               | ξ                 | 3 6      |   |
| IVERSON, LE GRAND                                   | 901           | 59 4696  | APPLIAPU       | 19020623  | 2 Z          | _                               | g ç               | מ מ      |   |
| יין ווין ווין אין אין אין אין אין אין אין אין אין א | 2 5           | 50 4025  | APPLAPP        | 19830210  | 2 Z          |                                 | 3 %               | 3 6      |   |
| IVIE IM DEE   | S C           | 59 4924  | APPI APP       | 19830210  | : z          | ~                               | 38                | 20       |   |
| IWAMOTO TAKEO                                       | 2             | 59 4544  | APPLAPP        | 19990713  | တ            |                                 | 38                | 29       |   |
| IWAMOTO, TAKEO                                      |               | 59 2552  | UGWCDIS        | 19000000  | တ            |                                 | 38                | 29       |   |
| IWAMOTO, TAKEO                                      |               | 59 4536  | APPLCERT       | 19770719  | 0.01500 S 1  | 110 W 460 N4SL                  | 38                | 20       |   |
| IWAMOTO, TAKEO                                      | ο<br><u>Ω</u> | 59 4544  | UGWC           | 19350000  | 0.02200      | 50 W 125 N4SL                   | • •               | 20       |   |
| IWAMOTO, TAKEO                                      | 0<br><u>-</u> | 59 4544  | APPLWD         | 19950731  | 'n           |                                 | 38                | 29       | - |
| J. N. HUTCHINGS & SONS INCORPORATED                 |               | 59 2631  | NGWCDIS        | 19210600  | တ            | ~                               | 33                | 29       |   |
| JENSEN AND WILKINSON INCORPORATED                   | S             | 59 2607  | newc           | 18990000  | S<br>5       | 5050 W 280 NESL                 | 38                | 20       |   |
| JENSEN, DONALD D. & JANE R.                         |               | 59 4948  | APPLCERT       | 19830527  | က :          | ÷                               | 33                | වූ       |   |
| JENSEN, MRS. GEORGE M.                              |               | 59 1993  | UGWCDIS        | 1924      | z            | 2540 W 120 S4SL                 | 3 5               | A C      |   |
| JENSEN, VERNON B. AND FERN L.                       |               | 59 2246  | OGWCDIS<br>0   | 19240000  | n 2          | 1403 W 4/40 NEST                | MESE 35 1W13      |          | _ |
| JEPPSEN, BRUCE                                      |               | 59 4355  | 7 2            | 1903      | _            |                                 | ຸ່ວ ວິ            | 5 G      |   |
| CEPTORIN, BROCE                                     |               | 59 4476  | APPI CERT      | 19770509  | . v          |                                 | 38                | 29       |   |
| JESSEE, NORWAN                                      |               | 59 4459  | APPI CERT      | 19770418  | Z            | _                               | 38                | 23       |   |
| JESSEE NORMAN P                                     | SOI           | 59 3597  | APPLCERT       | 19690527  | z            |                                 | 38                | 29       |   |
| LOHNSON CHESTER I                                   | SCI           | 59 4032  | APPLLAPD       | 19740402  | z            |                                 |                   | 29       |   |
| COHNSON RANDY                                       | SOI           | 59 4031  | APPLLAPD       | 19740402  | ż            | 278 E 786 SWSL                  |                   | 26       |   |
| JONES BROTHERS                                      | !             | 59 1665  | APPLLAPD       | 19620327  | 10.00000 N 1 |                                 | S                 | 26       |   |
| JONES, HAL H.                                       | ₽             | 59 5296  | APPLAPP        | 19900717  | s            | 2                               | 38                | 20       | • |
| JONES, JOAN E.                                      | IDS           | 59 4596  | APPLLAPD       | 19850709  | S            | Ш I                             | 38                | 20       |   |
| JONES, MERLIN H.                                    | S             | 59 2842  | UGWC           | 19000000  | s :          | ш г<br>—                        | SS S              | ဂ ပ      |   |
| JONES, OTTO F.                                      | S             | 59 4768  | APPLCERI       | 19800318  | <u>z</u>     | 231E 14 W45L                    | 45L 35 1W16       | n c      |   |
| JONES, OTTO F.                                      | S .           | 59 4326  | APPLCER I      | 19/61019  | 0.00000 R    | 321 E 14 W4SL<br>840 W 250 E4SI | ς<br>γ            | n 6      |   |
| JORDAN VALLET WATER CONSERVANCE DISTINCT            |               | 200      |                | 2100001   | <u> </u>     | 1                               |                   |          |   |

| IORDAN VALLEY WATER CONSERVANCY DISTRICT        |          | 50 1210  | APPI CEPT        | 10550305 | 3 55000 8    | 75 W 47   | 75 M 1768 NECI 3C 1M/30 | 1 20        |   |
|---|----------|----------|------------------|----------|--------------|-----------|-------------------------|-------------|---|
| JORDAN, DEAN L. III AND ROXANE D.               | _ ⊆      | 59 1112  | APPI NPR         | 19530627 | 0.01500 S    | 585 W 2   | 3 %                     | 2 2         |   |
| JORDAN, DEAN L. III AND ROXANE D.               | <u> </u> | 59 1953  | UGWC             | 19030000 | Z            | _         |                         | 7 59        |   |
| JORDAN, DEAN L. III AND ROXANE D.               | ₽        | 59 1952  | UGWC             | 19070000 | 0.03300      | 585 W 2   | 225 E4SL 2S 1W27        |             |   |
| JORGENSEN, DAVID B.                             |          | 59 3937  | APPLLAPD         | 19730319 | S            |           | 3550 NESL 3S 1W20       | 0           |   |
| Ju, DAVID                                       | SOI      | 59 4974  | APPLLAPD         | 19831019 | 0.01500 S    | 130 E 1   |                         |             |   |
| KARTCHNER, EARL                                 | IDS      | 59 4962  | APPLLAP          | 19830805 | z            |           |                         | 2           |   |
| KARICHNER, EARL                                 | SOI      | 59 5133  | APPLLAP          | 19850808 | z:           |           | 33                      |             |   |
| KEMP, KAY F.                                    |          | 96/8/69  | UGWC             | 18960000 | z            | _         |                         |             |   |
| KENNECOTT LITAH COPPER CORPORATION              | <b>5</b> | 59 5209  | APPLCERI         | 19861201 | 1.04000 S    | 694 E 12  | 1256 NWSL 3S 2W2/       |             |   |
| KENNECOTT UTAH COPPER CORPORATION               |          |          | APPI APP         | 19960276 | n o          |           | ကို လို                 | 20 29       | - |
| KENNECOTT UTAH COPPER CORPORATION               | 0        | 7        | APPI PDPT        | 19520405 | o co.        | •         | 3 6                     |             |   |
| KENNECOTT UTAH COPPER CORPORATION               | IDS      | 59 93    | APPLCERT         | 19380114 | <b>z</b>     | -         | 38                      |             |   |
| KENNECOTT UTAH COPPER CORPORATION               | 0        | ~        | APPLCERT         | 19621213 | ď            | ~         | 33                      |             |   |
| KENNECOTT UTAH COPPER CORPORATION               | <u>.</u> | 59 1271  | APPLNPR          | 19560620 |              |           | 38                      |             |   |
| KENNECOTT UTAH COPPER CORPORATION               | !        | 59 945   | APPLAPP          | 19960226 |              |           |                         |             |   |
| KENNECOTT UTAH COPPER CORPORATION               |          |          | APPLAPP          | 19970818 | S            |           | 38                      | _           |   |
| KENNECOTT UTAH COPPER CORPORATION               |          | 59 3     | APPLUNAP         | 19960823 |              |           | 38                      |             |   |
| KENNECOTT UTAH COPPER CORPORATION               |          | 59 3     | APPLEXP          | 19950126 |              | 3700 E 4; | 33                      |             |   |
|   | 0        | 59 3991  | APPLWDD          | 19621213 | 7.00000 S    | 150 E 25  | 2500 NWSL 3S 2W14       | 59          |   |
| KENNECOTT UTAH COPPER CORPORATION               |          | 59 945   | APPLEXP          | 19890915 | S            | 2664 E 6  | 683 NWSL 3S 2W17        | 7 59        |   |
| KENNECOTT UTAH COPPER CORPORATION               |          | 59 609   | APPLCERT         | 19480217 |              | _         | 38                      | 59          |   |
| $\vdash$  |          | 59 2750  | UGWCDIS          | 19320815 | 0.02200<br>N | 100 E 33  | 3334 SWSL 3S 2W 8       | 3 29        |   |
| <b>—</b>  |          | 59 2065  | UGWCCERT         | 18900000 |              | -         |                         | 9 29        |   |
| <b>-</b>  |          | 59 2554  | UGWCDIS          | 18960000 | တ            |           |                         | 29          |   |
| $\vdash$  | 0        | 59 1653  | APPLCERT         | 19611121 | ഗ            |           |                         | 14 59       | - |
| <b>-</b>  | 0        | 59 3991  | APPLWDD          | 19621213 |              |           | 38                      | 29          |   |
| KENNECOTT UTAH COPPER CORPORATION               |          |          | APPLEXP          | 19940119 | S            |           | 33                      |             |   |
| <b>—</b> :                                      |          |          | APPLEXP          | 19940119 | တ            |           | - 1                     | 2 2         |   |
| KENNECOTT UTAH COPPER CORPORATION               |          |          | APPLEXP          | 19950126 | တ            | • •       | 33                      |             |   |
| KENNECOTT UTAH COPPER CORPORATION               |          |          | APPLEXP          | 19920402 | တ            |           |                         | 2           |   |
| KENNECOTT UTAH COPPER CORPORATION               |          | O        | APPLEXP          | 19920402 | တ            |           | 38                      |             |   |
| KENNECOTT UTAH COPPER CORPORATION               |          | 59 3     | APPLAPP          | 19970220 | တ            |           | 38                      |             |   |
| KENNECOTT UTAH COPPER CORPORATION               |          | C)       | APPLEXP          | 19890915 | S)           | •         | 38                      |             |   |
| KENNECOLI ULAH COPPER CORPORALION               |          | 59 3     | APPLAPP          | 19990205 | က :          |           | S 6                     |             |   |
| KENNWOKIHY, EAKL & BELLY                        | 6        | 59 4644  | APPLCERT         | 19780524 | z            | ~ `       |                         | 50.0        |   |
| MERNMAN, FRED W.                                | 3_       | 59 2817  | UGWC             | 19290000 | 0.01100      | 150 E 9   | 912 NWSL 35 1W 3        | 200         |   |
| KOCH BOREDT                                     | _ ⊆      | 50 4744  | APPLCERI         | 19770823 | ) Z          |           |                         |             |   |
| KOGIANES JOHN G                                 | ي د      | 59 47 44 | APPI CERT        | 19610711 | Z (7.        |           | 3 %                     |             |   |
| KOGIANES, JOHN G.                               | 2 ⊆      | 59 2430  | UGWC             | 19150000 | S            |           | 28                      |             |   |
| KOURIS, ROSE G. AND MARY N.                     | ₽        | 59 2350  | UGWC             | 19030000 | z            |           | 1830 SESL 2S 1W27       | _           |   |
| KYRIOPOULOS, LOUISE                             | _        | 59 4503  | APPLCERT         | 19770614 |              | _         | 2065 E4SL 2S 1W33       | က           |   |
| LARSEN, GERALD                                  | IDS      | 59 4838  | APPLLAPD         | 19810813 |              |           | 38                      |             |   |
| LARSEN, RONALD L.                               | SOI      | 59 4030  | APPLCERT         | 19740402 | တ            | _         |                         |             |   |
| LARSEN, ROY L. AND AUDREY L.                    |          | 59 27 99 | UGWCDIS          | 1890     | S            | •         | 33                      |             |   |
| LARSEN, TERRY AND LINDA LUZITANO                |          | 59 5546  | APPLREJ          | 19961114 | တ :          | _         |                         |             |   |
| LARSON, STERLING B.                             | တ င်     | 59 1166  | APPLCERT         | 19540817 |              | 1296 E ,  | 44 S4SL 3S 1W11         | 6<br>2<br>2 |   |
| LAWSOIN, WOODROW AND ROBY                       | S _      | 59 4299  | DIL<br>ADDI HNAD | 19540000 | z u          | ÷         | 1269 NESI 35 1W 4       |             |   |
| LOS CHURCH GRANT STAKE                          | -        | 59 2146  | UGWCDIS          | 19190000 |              |           |                         |             |   |
| LDS CHURCH, MILL CREEK STAKE, ATTN: H. D. LOWRY |          | 59 2133  | UGWCDIS          | 19200000 | တ            | >         |                         | ω.          |   |
| LEE, KEVIN M.                                   | IDS      | 59 5390  | FIXDAPP          | 19930412 | z            |           | 33                      | 29          |   |
| LUCAS, FRED                                     | iDS      | 57 8567  | APPLLAPD         | 19810210 | S            | •         |                         | 0 57        |   |
| LUCAS, GUSTAVE                                  | ω i      | 59 3042  | newc             | 19290000 | s c          |           | 1570 NESL 3S 1W20       | 20          |   |
| MABEY, DANIEL L. AND ANN W.                     |          | 29 2158  | UGWC             | 19177761 |              | Z020 E    | 140 N43L 33 1W 10       | RC          |   |

|   |            |                     |                      |                      | £                    |                 |                                       |            |     |
|---|------------|---------------------|----------------------|----------------------|----------------------|-----------------|---------------------------------------|------------|-----|
| MACKAY, KEITH P.  |            | 59 4260             | APPLLAPD             | 19760722             |                      | 870 E           | ຕ                                     |            |     |
| MADSEN, ORVILLE   | 0 8        | 59 5054             | APPLLAPD             | 19840702             |                      | 100 W           | 1000 NESL 3S 1W32                     | 7          |     |
| MADSEN, WAYNE AND MARION                                | _<br>_ °   | 59 2274             | ngwc                 | 19110000             |                      | 150 E           | ••                                    |            |     |
| MARSHALL FARL F   | n          | 59 2263             | UGWC                 | 18860000             | 0.02200              | 4 810 W         | 730 SESL 2S 1W2/<br>155 NASI 3S 1W 4  | 77         |     |
| MARTIN, MARK K.   | IDS        | 59 4304             | APPLCERT             | 19760723             |                      |                 |                                       |            |     |
| MASCARO, BOB  | ۵          | 59 5068             | APPLUNAP             | 19841016             |                      | 820 E           | 38                                    |            |     |
| MAURER, JACKSON S.                                      | ۾          | 59 666              | APPLNPR              | 19480830             |                      |                 | 110 S4SL 3S 1W11                      |            |     |
| MAYNARD THEODORE  |            | 59 2877             | UGWCDIS              | 193007               | 0.02200              | 1879 W          | 3.5                                   | 1W2/ 59    |     |
| MCALLISTER, LYLE D.                                     | IDS        | 59 4941             | APPLLAPD             | 19830330             |                      | 750 W           | 38                                    | )          |     |
| MCALLISTER, LYLE D.                                     | IDS        | 59 4941             | APPLLAPD             | 19830330             |                      | 200 W           |                                       |            |     |
| MCCARTHY, CURTIS L. & CHARICE                           | SOI        | 59 3399             | APPLCERT             | 19620918             |                      | 100 E           | 2430 W4SL 3S 1W29                     | <u>م</u> . |     |
| MCDOLIGALD, JOLIOS IM. AND INFINE S. MCDOLIGAL DANIEL W | s i        | 59 32 14<br>59 2239 |                      | 1810000              | 0.01100<br>N 002000  | 203 E           | 438 545L 25 1WZ/<br>800 SWSI 25 1W26  | 726        |     |
| MCDOUGAL, EDMUND L.                                     | 2          | 59 2398             | UGWCDIS              | 18840000             |                      | 1075 E          | 38                                    |            |     |
| MCGRATH, JERRY L. & PEGGY Z.                            | I.S        | 59 5473             | UGWC                 | 1934                 |                      |                 | 38                                    |            |     |
| MCKEE, CLIFTON A.                                       | SOI        | 59 2320             | OGWC                 | 19160000             | 0.00100              | 3955 W          | 130 N4SL 3S 1W16                      | 16 59      |     |
| MCMULLIN, URBAN B. & VERDA H.                           | 3_         | 59 3080             | UGWC                 | 19000000             |                      |                 | 38                                    |            |     |
| MCQUEEN, NELSON L.                                      | IDS        | 59 4940             | APPLCERT             | 19830426             |                      | 335 W           | 38                                    | 28 59      |     |
| MECHAM, LAVERL (GENERAL PERSONAL REPRESENTATIVE)        | <u>S</u>   | 59 405              | APPLNPR              | 19440518             |                      | 116 E           | 672 W4SL 3S 1W 2                      |            |     |
| MECHAM, LOUIS F.  | SO         | 59 5246             | APPLLAPU<br>APPLIAPO | 198/1103<br>19730508 | 0.01500 S            | 240 E<br>1315 F | 750 NWSL 4S 2W 3                      | 3 29       |     |
| MITCHELL, ARTHUR O, AND LEVARA                          | S          | 59 5233             | APPLCERT             | 19870803             | _                    |                 | 3 %                                   | 134 59     | -   |
| MITCHELL, MARCUS  |            | 59 1869             | UGWCDIS              | 1904                 |                      | 1589 E          | 2820 NWSL 3S 1W14                     | V14 59     |     |
| MONTOYA, ALEX AND MARY L.                               |            | 59 526              | APPLDIS              | 19461126             |                      |                 | 33                                    |            |     |
| MOOSMAN, GLEN   |            | 59 4404             | APPLCERT             | 19770127             | 0.10000 N            | 1048 W          | 143 E4SL 3S 1W 4                      | 4 59       |     |
| MUCONMAN, GLEN  | ט ב        | 59 4955<br>59 3746  | HGWCI IT             | 19320000             |                      | 166 W           |                                       |            |     |
| N. L. K. FAMILY TRUST                                   | DS SO      | 59 5387             | UGWC                 | 19000000             |                      | •               | 150 N4SL 3S 1W29                      | 29 59      |     |
| NAYLOR, BETTY G.  |            | 59 4747             | UGWC                 | 19030000             |                      | 825 E           |                                       |            |     |
| NAYLOR DEAN   |            | 59 2033             | UGWCDIS              | 19111115             | 0.01500 S            | 5 2241 E        | 146 NWSL 35 1W14<br>520 S4SL 25 1W33  | 73 50      |     |
| NAYLOR, HENRY W.  | <i>S</i> : | 59 3982             | APPLCERT             | 19730802             |                      | 230 W           | 38                                    |            |     |
| NAYLOR, ROBERT A. AND BERTHA                            | )          | 59 2288             | UGWC                 | 19020000             |                      | 2470 W          | 245 NESL 3S 1W10                      |            |     |
| NEFF, NELDON J. AND ELAINE                              |            | 59 2290             | UGWC                 | 19200000             |                      | 65 W            |                                       |            |     |
| NELSON, CHARLES R. AND ELLEN E.                         | <u>s</u>   | 59 2972             | UGWC                 | 19200000             | 0.04500 N            | 944 W           | 200 E4SL 3S 1W 3                      | 3 59       |     |
| NELSON, HENRY   | ď          | 59 2293             | UGWCDIS              | 19030000             | 0.06700<br>0.00400 N | 1310 E          | - SS                                  | _          | -   |
| NEWTON, WILLIAM D. AND LAVELL E.                        | )          | 59 2409             | UGWCLAPD             | 19240800             |                      | 190 E           | 33                                    |            |     |
| NIELSEN, HENRY D.                                       |            | 59 3012             | NGWCDIS              | 19100000             |                      | 4158 W          | L 3S                                  | 2          |     |
| NIELSEN, LARRY M.                                       | ٥          | 59 4451             | APPLLAPD             | 19770324             | 0.06700 N            | 810 W           | 300 SESL 3S 1W 8                      | 1W 8 59    |     |
| MIELSEN, T. SCHIN (11)                                  | ⊇          | 59 4741             | APPLCERT             | 19790801             |                      | -               | 38                                    |            |     |
| NOGALES, RITO AND URVANA                                |            | 59 2264             | UGWC                 | 19110000             |                      |                 | 58                                    |            |     |
| NORTH JORDAN IRRIGATION COMPANY                         | s_         | 59 2460             | UGWC                 | 19290000             | -                    | • •             | - 2S                                  | <u> </u>   |     |
| NORTH JORDAN IRRIGATION COMPANY                         |            | 59 2453             | newc                 | 19290000             | 3.00000              | N 810 W         | 730 SESL 2S 1W2/<br>530 SM/SL 2S 1M2/ | 1W2/ 59    |     |
| NOK-H JOKDAN IKKIGA ION COMPANY                         | n (r       | 59 4842             | APPI CERT            | 19810824             |                      |                 | ဒွဲ ဇွ                                | ,          |     |
| OAKESON GLEN W. & MOANA C.                              | SQ         | 59 3871             | APPLCERT             | 19720823             |                      |                 |                                       | 29 59      |     |
| OLSEN, CECIL A.   | □          | 59 4471             | APPLCERT             | 19770503             | _                    |                 | 33                                    |            | · . |
| OLSEN, JOHN H.  |            | 59 641              | APPLNPR              | 19480614             | 0.01500 S            | S 1043 E        | 140 NWSL 3S 1W 2                      | 7 59       |     |
| OLSEN, JOHN H.  | _          | 59 3330             | APPI I APD           | 19780313             |                      | 200 E           | ဒ္ဌင္ဆ                                |            |     |
| ORME, GILBERT   | IDS        | 59 5000             | APPLLAPD             | 19840507             |                      | 1050 E          |                                       | N22 59     |     |
| ORTEGA, JOSEPH A. AND ZELMA M.                          | ٥          | 59 2967             | UGWC                 | 19250000             | 0.11100 S            | 330 E           | 1422 NWSL 2S 1W35                     | 735   59   |     |

| OWEN LAVAWN R.                                       |               | 59 4107 | APPLLAPD    | 19781204 | 2.00000 N | 100 W 1  | 1200 SESL 3     | 3S 1W 8    | 59       |   |
|--|---------------|---------|-------------|----------|-----------|----------|-----------------|------------|----------|---|
| PANDO, JACOB   | _             | 59 2686 | UGWC        | 19080000 | 0.02700   |          |                 |            | 59       |   |
| PARRY, BLAINE B.                                     |               | 59 1744 | APPLLAPD    | 19650316 | 0.01500   | 150 W 14 |                 | 3S 1W29    | 29       |   |
| PASCOE, ERWIN L. JR. AND BEATRICE                    | IDS           | 59 2683 | UGWC        | 19240701 |           |          |                 | S 1W29     | 29       |   |
| PATTERSON, REX                                       | <u></u>       | 59 3053 | UGWC        | 19040000 | 0.02200   | 80 W 63  | 630 NESL 2S     | S 1W34     | 29       | - |
| PEASE, CECIL AND WILMA                               | IDS           | 59 4127 | APPLCERT    | 19750325 |           | 1435 E   |                 | 3S 1W14    | 29       |   |
| PEASE, JANICE  | IDS           | 59 4912 | APPLLAPD    | 19821007 |           |          |                 |            | 26       | - |
| PEINE, FRED  | SQI           | 59 5228 | APPLUNAP    | 19870529 | _         |          |                 |            | 20       |   |
| PEINE, FRED  | s i           | 59 3621 | APPLLAPD    | 19700603 |           | 800 E    |                 | 3S 1W 4    | 29       |   |
| PERSCHON, A. ROBERI                                  | SCI           | 59 4346 | APPLCERI    | 19770103 | _         | 503 E 2  |                 |            | 9 5      |   |
| PELEKS, FKANK  |               | 59 3977 | APPLLAPD    | 19730702 |           | 1785 E   | ┙`              | ~~         | 29       |   |
| THE HANDEN, CRAIG                                    | SCI           | 59 4325 | APPLCER     | 19/61014 |           | 635 E 1  |                 |            | 29       |   |
| PETERSEN, ROY C.                                     | <u>.</u>      | 59 3263 | UGWC        | 19310000 | _         | 1437 W   |                 |            | 56       |   |
| PELEKSEN, ROY C.                                     |               | 59 2844 | UGWCDIS     | 1927     | _         | 1420 W   |                 |            | 20       |   |
| PETERSON BROS.                                       | SOI           | 59 3397 | APPLUNAP    | 19660713 |           | 1300 E   |                 | 3S 1W16    | 29       | - |
| PETERSON, DONALD L. AND F. MILES                     |               | 59 654  | APPLDIS     | 19480722 |           | 119 W    | 168 N4SL 3      |            | 29       |   |
| PELEKSON, MKS. CLYDE                                 | SO            | 59 3051 | newc        | 19340000 |           | 2536 W   |                 | 3S 1W20    | 29       |   |
| PETERSON, RODNEY K.                                  | IDS           | 59 2298 | NGWC        | 19140000 | 0.01100   | 1296 E   | 107 NWSL 3      | 3S 1W29    | 29       |   |
| PETERSON, ROY G. AND BEVERLY L.                      | s             | 59 2099 | newc        | 18950000 | 0.00900   | 412 W    | 55 NESL 39      | 3S 1W10    | 29       |   |
| PETTEGREW, DONALD E. AND MERLE J. WARDLE             | IDS           | 57 8537 | APPLLAPD    | 19800624 | 0.01500 N | 410 W    | 1720 E4SL 3     | 3S 1W27    | 22       |   |
| PHELPS, ORVAL K. & FLORENCE J.                       | ₽             | 59 581  | APPLNPR     | 19470729 | 0.01500 N | 230 E    | 90 W4SL 3S      | 3S 1W15    | 29       |   |
| PHELPS, STEVEN D. & VICKI LIN                        | SOI           | 59 4055 | APPLCERT    | 19740530 | 0.01500   | 1235 W   | 156 N4SL 3      | 3S 1W29    | 29       |   |
| PHELPS, WILFORD E. & ISABELL                         | IDS           | 59 3769 | newc        | 19300000 | 0.02200   | 987 W    | 150 N4SL 3S     | S 1W29     | 29       |   |
| PONT, DONALD E                                       | _             | 59 5052 | APPLCERT    | 19840622 | 0.01000 N | 1084 E   |                 |            | 29       |   |
| POTOMAC CORPORATION                                  | о<br><u>п</u> | 59 4436 | APPLCERT    | 19770301 | 0.22000   | 180 W    | - 1             |            | 29       |   |
| POWELL, KEITH L. AND MELVA J.                        | IDS           | 59 2034 | ngwc        | 19290000 | 0.00400   |          |                 | 3S 1W16    | 29       |   |
| PRICE, JOHN L.                                       | SOI           | 59 4813 | APPLLAPD    | 19850520 | 0.13300 S | 1260 E   |                 | 3S 1W 4    | 29       |   |
| PULLEY, HARVEY                                       | _             | 59 5311 | APPLLAP     | 19760719 | 0.05700 N | 200 W 1  |                 | 3S 1W 5    | 29       |   |
| PULLEY, HARVEY                                       | SOI           | 59 4259 | APPLCERT    | 19760719 |           | 251 W    |                 |            | 29       |   |
| PUZEY, NAD   | IDS           | 59 4786 | APPLLAPD    | 19860812 |           | 700 E    |                 |            | 29       |   |
| QUILTER, JAMES O. & VIRGINIA A.                      | ٰ ڡ           | 59 1263 | APPLNPR     | 19560521 |           | 1687 W   |                 |            | 29       |   |
| QUILTER, JAMES O. AND VIRGINIA R.                    | DS            | 59 2846 | newc        | 19160000 |           | 445 W    |                 | S 1W35     | 29       |   |
| RADMALL, GLEN  |               | 29 638  | APPLDIS     | 19480604 |           | 49 E     |                 | 3S 1W 2    | 29       |   |
| RASMUSSEN, BRENT K.                                  | SQI           | 59 4338 | APPLCERT    | 19761123 |           | 394 W    |                 |            | 26       |   |
| RASMUSSEN, CLYDE & ILA R.                            |               | 59 4286 | 머           | 19340000 |           | 1068 E   |                 |            | 20       |   |
| RASMUSSEN, CLYDE AND ILA R.                          | SOI           | 59 2361 | UGWC        | 19030000 | _         | 520 E    | . `             |            | 29       |   |
| RASMUSSEN, KENNETH P. & ELSIE S.                     | SOI           | 59 4771 | APPLCERT    | 19801008 |           | 327 W    |                 |            | 22 (2    |   |
| RASMUSSEN, TRAVIS & BEA                              | SOL           | 59 3817 | APPLCERI    | 19/10803 |           | A COS.   | 202 S4SL 3      | 35 1W20    | 20 0     |   |
| KEID, JOHN A AND NOLA M.                             | ⊇ :           | 59 2292 | UGWC        | 19030000 |           | 1300     |                 | 33 IWII    | 200      |   |
| KEID, JOHN A.  | <u> </u>      | 59 4417 | APPLCER     | 19770216 | 0.20500   | 200      |                 |            | 200      |   |
| ACCT, ACTIVITIES (CA.)                               | 2 2           | 50 40/9 | APPLCERI    | 19/40013 |           | 300 F    |                 |            | 3 8      |   |
| KICE, MENNETH F. (SK.) & DIANA M. BICHADDS STILADT H | <u> </u>      | 59 2862 | ואט אני ביי | 1909000  |           | 1029 V   |                 |            | 20 00    |   |
| PICHARDSON DIJANE G                                  | S             | 59 4753 | APPI CERT   | 19791023 |           | 825 E 1  | 155 N4SL 35     | 3 1W2      | 29       |   |
| RICHARDSON DUANE G. (TRUSTEE RICHARDSON FAMILY T.)   | SC            | 59 3005 | UGWC        | 19080000 |           | 760 E    | 40 N4SL 35      | 3S 1W 2    | 29       |   |
| RICHINS MARY ANN                                     | SOI           | 59 3464 | UGWC        | 18960000 |           | 865 W    |                 | 2S 1W34    | 29       |   |
| RIVERTON (CITY OF)                                   | O             | 59 1554 | APPLAPP     | 19960412 | 1.50000 S | 320 W    | 122 NESL 3      | 3S 1W31    | 29       | - |
| RIVERTON CITY  | O             | 59 1533 | APPLAPP     | 19950103 | 5.00000 N | 113 W    | 786 NESL 3      | 3S 1W32    | 29       |   |
| RIVERTON CITY  | O             | 59 1118 | APPLUNAP    | 19620623 | 2.00000 S | 320 W    | 122 NESL 3      | 3S 1W31    | 29       |   |
| RIVERTON CITY CORPORATION                            | O             | 59 1534 | APPLCERT    | 19590804 | 5.00000   | 320 W    |                 |            | 29       |   |
| RIVERTON CITY CORPORATION                            | ပ             | 59 1189 | APPLCERT    | 19540913 |           | 320 W    |                 |            | 29       |   |
| ROBBINS, GOLDEN W.                                   | s<br>_        | 59 1770 | 占           | 18730000 |           | 1620 W   | 250 S4SL 3      | 3S 1W14    | 29       |   |
| ROBERTS, FRANK C. AND JACQUELINE                     | s <u> </u>    | 59 3926 | APPLCERT    | 19730514 |           | 636 E    | 39 S4SL 2S 1W34 | 1W34       | 20       |   |
| ROBERTS, G. ELDON                                    |               | 59 1930 | UGWCDIS     | 1906     |           | 1280 W   |                 | 2S 1W28    | <u> </u> |   |
| ROBERTSON, DOUGLAS AND BETH                          | SOL           | 59 4091 | APPLIAPD    | 19/4100/ |           | W 2021   | 190 N45L        | 35 IW29    | 200      |   |
| ROWE, GLENN N. & MELODY A.                           |               | 59 5001 | APPLCERI    | 19840507 | 0.01500   | 340 V    |                 | <u>,</u> ₹ | n 0      |   |
| KUSHION, CLINION V. & JOAN K.                        |               | 29 4906 | AFFLOER     | 19020902 |           | 7 202    |                 |            | 22       |   |

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| SOUTH VALLEY WATER RECLAMATION FACILITY      |               |          | APPLWDD          | 19840309  | z                 | _                                  | 38                |       |
|--|---------------|----------|------------------|-----------|-------------------|------------------------------------|-------------------|-------|
| SOUTHERN PACIFIC TRANSPORTATION COMPANY      |               | 59 2675  | UGWCDIS          | 19090000  | တ (               |                                    | SS (              | 59    |
| SOUTH ERN PACIFIC I KANSPORTATION COMPANY    |               | 59.26/6  | OGWCDIS          | 19090000  | n o               |                                    | 448 N4SL 3S 1W 6  | 6 G   |
| SOCIETAVIRE COMPANY                          | ۰<br><u>ا</u> | 59 4831  | APPLLAPU         | 19810721  | 0 0               | ٠                                  | VEST 35 1W 5      | n c   |
| SPIERS, LORAINE I. AND GARIH                 | 2 5           | 59 57 22 | APPLLAP          | 19850019  |                   | 80 E 835 W4SL                      | 300 W45L 35 1W29  | e c   |
| SPOEKKI, AUGUSI F.                           | <u> </u>      | 50 2685  | AFFLLAF<br>11GMC | 19300021  | z <i>v</i>        |                                    | 120 NESI 3S 1W 9  | n 0   |
| SPRATING JOHN                                | 3_            | 59 1636  | APPI CERT        | 19610822  | ) Z               |                                    | . ~               | 9 5   |
| SPRATLING, JOHN                              |               | 59 1637  | APPLCERT         | 19610822  | z                 | _                                  | 33 S4SL 3S 1W 9   | 29    |
| STALLINGS, DON                               | SOI           | 59 4848  | APPLCERT         | 19810902  | S                 |                                    | 1475 E4SL 3S 1W22 | 59    |
| STALLINGS, REX                               | SQI           | 59 4847  | APPLLAPD         | 19810901  | S                 |                                    |                   | 29    |
| STATE OF UTAH DEPARTMENT OF TRANSPORTATION   |               | 59 2084  | UGWCDIS          | 19300700  | z:                |                                    |                   | 29    |
| STATE OF UTAH DIVISION OF PARKS & RECREATION | <u>c</u>      | 59 1078  | APPLCERT         | 19530213  | z                 |                                    | 35 SWSL 3S 1W14   | 29    |
| STEATTON EPANCES F AND PEED !                | ي ⊆           | 59 2/4   | OGWC             | 191 10000 | 0.013<br>N 000010 | 930 E 1703                         | 30 SASL 23 1W20   | 29    |
| STROH KIMBERLY S.                            | SO            | 59 5333  | FIXDLAP          | 19911008  | . v               |                                    | 1900 E4SL 3S 2W34 | 20.00 |
| SULLIVAN, DOUGLAS AND ILEAN                  | <u>S</u>      | 59 4636  | APPLCERT         | 19780424  | z                 |                                    | 1390 SWSL 3S 1W22 | 29    |
| TATEOKA, MATT                                |               | 59 1176  | APPLCERT         | 19540726  | z                 |                                    | 35 SWSL 3S 1W 9   | 59    |
| TATEOKA, MATT                                | _             | 59 1620  | APPLCERT         | 19610627  | z                 | 35 E 35 SWSL                       | NSL 3S 1W 9       | 29    |
| TAYLOR, FRANK L.                             | SO            | 59 2829  | UGWC             | 19030000  | S                 | 80 E 1345 N                        | 38                | 29    |
| TAYLOR, FRANK L.                             | DS            | 59 2830  | ngwc             | 19030000  | o :               |                                    |                   | 20    |
| TAYLOR, JOYCE M.                             | SQI           | 59 3879  | APPLCERT         | 19541117  | ر<br>در           |                                    | 44 NWSL 4S 2W 3   | 92    |
| TESCH, ARDEN                                 |               | 59 2052  | DGWCDIS          | 19210000  | 0.033 N           | 310 W 110                          | 3 K               |       |
| THACKER O                                    |               | 59 1855  | LIGWC<br>LIGWC   | 19090000  | z v               |                                    | 22 82             | 20    |
| THOMETY LOF                                  | <u> </u>      | 59 4845  | APPI I APD       | 19810824  | ) z               | •                                  | 38                | 23    |
| THOMPSON, MAX                                | SO            | 59 1723  | APPLCERT         | 19640328  | : v               |                                    | 38                | 20    |
| THOMPSON, SHONNA F.                          | ۵             | 59 5219  | APPLLAPD         | 19870409  | z                 | $\overline{}$                      | 33                | 29    |
| THORNE, RONALD H.                            |               | 59 1627  | APPLCERT         | 19610717  | S                 | 810 W 1295 N4SL                    | 38                | 29    |
| TIDWELL, BERT ALLEN                          | SQI           | 59 4054  | APPLCERT         | 19740524  | z                 |                                    | 33                | 59    |
| TISCHNER, PAUL R.                            | SQI           | 59 4825  | APPLLAPD         | 19810617  | z                 |                                    | 38                | 29    |
| TODD, MAURINE                                | SQI           | 59 3643  | newc             | 19710221  | S                 | _                                  | . 2S              | 29    |
| TOLBERT, CLINTON BERNELL                     | SOI           | 59 3842  | APPLLAPD         | 19720419  | Z                 |                                    | 38                | 29    |
| TOLBERT, CLINTON BERNELL AND CONNIE (TRUST)  | SQ            | 59 5316  | FIXDAPP          | 19901203  | z                 |                                    |                   | 60    |
| TOLBERT, CLINTON BERNELL AND CONNIE (TRUST)  | SO            | 59 5315  | APPLREJ          | 19901203  | 0.50000 N         | 335 W 900 SEST                     | 900 SESE 35 ZW1Z  | 90    |
| KIMBLE, CUIHBERI J.                          | ٥ ۾           | 59 3262  | J WC             | 19000000  | ZZ                | 4                                  | 38                | 200   |
| TRIMOLE, COLLIDER J.                         | <u> </u>      | 59.3786  | OMO              | 19030000  | : z               |                                    | 38                | 29    |
|  |               | 59 3784  | UGWC             | 19030000  | z                 |                                    | 38                | 29    |
| TRIMBLE, CUTHBERT J.                         |               | 59 3787  | UGWC             | 19030000  | Z                 |                                    | 38                | 29    |
| TRUJILLO FAMILY TRUST                        | တ             | 59 5394  | APPLAPP          | 19930430  | s :               | ω.                                 | 33                | 29    |
| TURNER, FRANK P.                             | SQ            | 59 5547  | FIXUAPP          | 19961121  | 0.0000 O          | 764 W 80 3                         | 80 SESL 3S 2W33   | , o   |
| LORNER, LARKY J.                             | ⊆             | 59 5524  | APPI CERT        | 19770510  | z                 |                                    | 38                | 20 00 |
| TIRNER I ARRY J                              | <u> </u>      | 59 5524  | FIXDAPP          | 19960314  | z                 |                                    |                   | 29    |
| VANLEUVEN, E. WAYNE & LUCRECIA C.            | <u> </u>      | 59 5102  | APPLAPP          | 19890619  | z                 |                                    | 38                | 29    |
| VANSLEEUWEN, CON                             | <u>Q</u>      | 59 5173  | APPLLAPD         | 19860429  | တ                 |                                    | 38                | 29    |
| VANSLEEUWEN, CON AND HENNIE                  | IDS           | 59 4871  | APPLLAPD         | 19820112  | တ                 |                                    | 38                | 29    |
| VANSLEEUWEN, PAUL R. & JOLEN                 | SQI           | 59 4863  | APPLLAPD         | 19811117  | တ                 |                                    | ဗ္ဗ ဗ             | 20    |
| VANSLEEUWEN, RONALD & JANET                  | SQ            | 59 4877  | APPLLAPD         | 19820330  | χ <u>(</u>        |                                    | 3 6               | n c   |
| WALKER, ARLENE D.                            | <u>(</u>      | 59 2163  | UGWCDIS          | 19280500  | n 2               | 3006 E 158 N4SL<br>340 E 1350 W4SI | 158 N4SL 3S 1WZ8  | 60    |
| WALKER, E. R.                                | ≘_            | 59 483/  | APPLLAPU         | 19810804  | 1 56000 S         | <u>-</u>                           | )<br>(2)          | 20 00 |
| WALKER, GEORGE J.                            |               | 59 16 10 | APPI CERT        | 19750306  | Z                 |                                    | 28                | 20    |
| WALKER, JOHN                                 | 2 _           | 59 5244  | APPI CERT        | 19870923  | z                 | 4                                  | 33                | 29    |
| WARREN DEAN T                                | တ             | 59 4723  | APPLCERT         | 19790508  | S                 |                                    | 284 NESL 3S 1W 3  | 29    |
| WELLS, D. DEAN                               | IDS           | 59 3565  | APPLCERT         | 19680715  | 0.01500 N         | 265 E 805 S4SI                     | 33                | 59    |
|  |               |          |                  |           |                   |                                    |                   |       |

| WELLS, NAOMI G.                   |            | 59 2542 | Ingwedis | 1900000  | 0.01100 S 2340 E 149 NWSL 3S 1W1 | NWSL 3S 1W11              | 29    |
|-----------------------------------|------------|---------|----------|----------|----------------------------------|---------------------------|-------|
| WEST JORDAIN, CITY OF             |            | 59 1299 | APPLREJD | 19570123 | 0.00000 W 100 E                  | 4SI 3S 1W 7               | 20    |
| WEST JORDAN, CITY OF              | ပ          | 59 1572 | APPLAPP  | 19600714 | υ,                               | NWSI 2S 1W35              | 20.00 |
| WEST JORDAN, CITY OF              |            | 59 1298 | APPLREJD | 19570123 |                                  | SWSI 3S 1W 2              | , o   |
| WEST JORDAN, CITY OF              |            | 59 2883 | UGWCDIS  | 1934     | 0.220001S 660 F 851              | NWSI 2S 1W35              | 20    |
| WEST JORDAN, CITY OF              | _          | 59 3009 | UGWC     | 19100000 | 0.01100 S 1275 W 530             | 3 1275 W 530 NESL 2S 1W34 | 59    |
| WHELWRIGHT, DAVID A. AND MAVIS G. |            | 59 5101 | APPLAPP  | 19850506 | 0.05400 N 65 W 777               | SESL 3S 1W 9              | 29    |
| WILCOX, LORETTA                   | IDS        | 59 5074 | APPLCERT | 19880809 | 0.01500 S 1471 W 151             | 1 NESL 3S 1W30            | 29    |
| WILCOX, WALTER C AND NELLIE S.    | တ          | 59 2641 | NGWC     | 19040000 | 0.00700 N 1385 E 150             | W4SL 3S 1W 2              | 29    |
| WILEY, ROBERT G.                  | ≘          | 59 5229 | APPLCERT | 19870612 | 0.01500 N 117 W 286              | SESL 3S 1W 9              | 59    |
| WILKINSON, RICHARD AND ROMONA     |            | 59 2131 | NGWCDIS  | 19200000 | 0.02200 N 255 W 105              | E4SL 3S 1W21              | 59    |
| WILLIAMSON, KENNETH HAROLD        | _          | 59 1716 | APPLUNAP | 19640213 | 0.25000 N 300 W 779              | E4SL 3S 1W21              | 59    |
| WITHERSPOON, JAMES R.             | SO         | 59 1180 | APPLCERT | 19540804 | 0.01500 N 1188 E 291             | S4SL 3S 2W33              | 59    |
| WITHERSPOON, JAMES R.             | IDS        | 59 5324 | APPLAPP  | 19910416 | 0.01500 N 1110 E 655             | S4SL 3S 2W33              | 59    |
| WOODS, THOMAS C. AND NELL (JR.)   | IDS        | 59 1011 | APPLNPR  | 19520421 | 0.01500 S 70 E 10 V              | V4SI 3S 1W21              | 59    |
| YARBERRY, AFTON L.                | s <u> </u> | 59 3619 | APPLLAPD | 19700513 | 0.01500 S 1160 W 835             | 5 N4SL 3S 1W16            | 59    |
| YATES, J. MAC AND GLORIA RUTH     | S          | 59 5059 | APPLCERT | 19840726 | 0.06700 N 962 W 584              | SESI 3S 1W 9              | 59    |
| YERGENSEN, R. L.                  |            | 59 4356 |          | 1903     | 4 00000 N 1755 F 1655            | 5 W4SI 3S 1W11            | 20    |
| YOUNG, PARLEY A.                  |            | 59 2467 | UGWCDIS  | 19050000 | 0.13000 N 1017 E 153             | W4SI 3S 1W14              | 29    |

| PRIORITY             | OWNER                                  | IUSES             | WRNUM              | STATUS          | FLOW (CFS) L                  | LOCATION            |                          |                    | AREA CODE |
|----------------------|--|-------------------|--------------------|-----------------|-------------------------------|---------------------|--------------------------|--------------------|-----------|
| 18730000             | ROBBINS, GOLDEN W.                     | 1.8               | 59 1770            | DIL             |                               | 1620 W              |                          |                    | 59        |
| 18840000<br>18860000 | MCDOUGAL, EDMUND L.                    | v.                | 59 2398            | UGWCDIS         | 0.06700<br>0.02200            | 10/5 E<br>810 W     | 730 SESL 2S              | 35 1W 2            | 20 00     |
| 1890                 | LARSEN, ROY L. AND AUDREY L.           | )                 | 59 2799            | UGWCDIS         |                               | 3027 E              |                          |                    | 29        |
| 18900000             | SALT LAKE COUNTY RECREATION DEPARTMENT |                   | 59 3090            | UGWCDIS         |                               | 429 W               | 820 NESL 3               |                    | 29        |
| 18900000             | KENNECOTT UTAH COPPER CORPORATION      |                   | 59 2065            | UGWCCERT        | 1.50000 S                     | 698 E               | 300 SWSI 2               | 3S 2W29<br>2S 1W35 | 5 G       |
| 18930000             | MAXFIELD, E. O. & ROSAMOND P.          | <u> </u>          | 59 2100            | UGWCDIS         |                               | 2798 V              | 218 N4SL 3               | 3S 1W27            | 29        |
| 18940000             | AFCO DEVELOPMENT COMPANY               | -                 | 59 2282            | NGWCDIS         |                               |                     | 682 SWSL 3S 1W 7         | 3S 1W 7            | 29        |
| 18950000             | PETERSON, ROY G. AND BEVERLY L.        | <u>s</u>          | 59 2099            | UGWC            | 0.00900                       | 412 W               | 55 NESL 3S 1W10          | S 1W10             | 59        |
| 18960000<br>18960000 | GAILEY, GRACE E.                       | S.C.              | 59 2263<br>59 2147 | GWCDIS<br>LIGWC | -                             | 865 W               | 315 F4Si 2S 1W34         | S 1W34             | 59        |
| 18960000             | SALT LAKE COUNTY                       | 0                 | 59 2368            | newc            |                               | 2E 7                | 750 S4SL 2S 1W33         | 1W33               | 26        |
| 18960000             | KEMP, KAY F                            |                   | 59 3796            | newc            |                               | 865 W               | 315 E4SL 2S 1W34         | S 1W34             | 29        |
| 18960000             | RICHINS, MARY ANN                      | SQI               | 59 3464            | UGWC            | 0.02200<br>0.02200<br>0.02200 | 865 W               |                          | 2S 1W34            | 29        |
| 18960000             | KENNECOLI OLAH COPPER CORPORALION      | <i>u</i>          | 59 2554            | I GWCDIS        | 0.02200 S                     | 373 E               | 360 INWSL 3<br>2412 SWSI | 35 2W2/<br>35 1W11 | 20.00     |
| 18960000             | MCDOLIGAL DANIEL W                     | SCI               | 59 2239            | OWS             |                               | 2730 E              |                          | 2S 1W26            | 20        |
| 000068               | JENSEN AND WILKINSON INCORPORATED      | <u>S</u> <u>S</u> | 59 2607            | newc            |                               | 5050 W              |                          |                    | 59        |
| 8990000              | GOECKERITZ, RUDOLPH E. & DENISE        | s <u> </u>        | 59 4027            | newc            |                               |                     | .,                       |                    | 29        |
| 18990000             | BECKSTEAD, EDWARD B.                   |                   | 59 2589            | UGWCDIS         |                               | 1207 W              |                          |                    | 29        |
| 18990000             | CARTER, JAMES W.                       |                   | 59 2644            | UGWCDIS         |                               | 135 W               |                          |                    | 23        |
| 1900                 | SMITH, CLINTON E. AND ALMEDA H.        |                   | 59 2713            | UGWCDIS         |                               | 835 W               |                          | 2S 1W28            | 50        |
| 1900                 | GEDGE, NATHAN R. AND GRACE             | טב                | 59 2952            | UGWCDIS<br>HGWC | 0.00000<br>N 00000            | W 62C1 V            | 170 S4SI                 | 35 1W 3            | 50        |
| 1900000              | MCMIII IN LIBBAN B & VERDA H           | 3_                | 59 3080            | newc            |                               | •                   |                          |                    | 29        |
| 19000000             | FULLMER, GENE L. & DELORES H.          | <u>s</u>          | 59 4364            | UGWC            |                               | 1785 E              |                          | - 10               | 29        |
| 19000000             | IWAMOTO, TAKEO                         |                   | 59 2552            | UGWCDIS         |                               |                     | ٠,                       | 3S 1W10            | 20        |
| 19000000             | WELLS, NAOMI G.                        | 6                 | 59 2542            | UGWCDIS         | 0.01100 S                     | 2340 E              | 149 NWSL 3               | 35 1W11            | 20 00     |
| 19000000             | JONES, MERLIN H.                       | 2 <u>2</u>        | 59 2642            | OWC I           |                               | 355 E               | <b>'</b>                 |                    | 28        |
| 1900000              | N K FAMILY TRUST                       | SQI               | 59 5387            | UGWC            | _                             | 1075 W              |                          |                    | 29        |
| 19010000             | ANDERSON, MAX W. AND MAURINE M.        |                   | 59 2524            | NGWCDIS         |                               |                     |                          |                    | 29        |
| 1902                 | HOLT, ALMA M.                          |                   | 59 1987            | UGWCDIS         |                               |                     | 170 NESL                 | 3S 1W15            | 5 6       |
| 19020000             | NAYLOR, ROBERT A. AND BERTHA           |                   | 59 2288            | UGWC            | 0.03300                       | S 1458 W            |                          |                    | 20        |
| 19020000             | FORMAN, STANFORD M.                    | <i>U</i> .        | 59 2815            | LIGWC           |                               | 600 E               |                          |                    | 26        |
| 19020000             | DICK, JAMIES                           | = =               | 59 4280            |                 |                               | 1380 E              | _                        | "                  | 29        |
| 1903                 | LEPPSEN BRITCE                         |                   | 59 4355            |                 |                               | N 1755 E            |                          |                    | 59        |
| 1903                 | JEPPSEN, BRUCE                         |                   | 59 4254            | DIC             |                               | 595 E               | C)                       | ↽                  | 20        |
| 1903                 | YERGENSEN, R. L.                       | _                 | 59 4356            | 미               |                               | 1755 E              |                          |                    | 29        |
| 1903                 | CHAVEZ, TONY A,                        | _                 | 59 4357            |                 |                               | 1755 E              | 1655 W4SL                |                    | 60        |
| 1903                 | BROWN, LULA                            |                   | 59 1951            | UGWCDIS         |                               | N 1445 W            | ZZU SESL                 | 25 1W2/<br>36 1M/2 | 20        |
| 9030000              | TRIMBLE, CUTHBERT J.                   |                   | 59 3787            | OGWC            | 1.74000                       | 1600 F              | •                        |                    | 3 6       |
| 19030000             | GARDNER, JOHN R. AND EDWIN F.          | <u>n</u>          | 59 2525            | O CWC           | _                             |                     |                          |                    | 29        |
| 19030000             | I RIMBLE, CUTHBERT J.                  |                   | 59 4747            | CMSC            |                               | 825 E               | • • •                    | 2S 1W35            | 29        |
| 19030000             | TABINABLE CLITHBERT -                  | IDS               | 59 2557            | newc            | _                             |                     | 1482 SWSL                |                    | 59        |
| 9030000              | I CRIMBLE, COLLIBERT 3:                | <u> </u>          | 59 1953            | NGWC            |                               | 2115 W              | 220 SESL                 |                    | 29        |
| 19030000             | RASMUSSEN, CLYDE AND ILA R.            | SOI               | 59 2361            | UGWC            |                               | 520 E               | 1000 NWSL                | 3S 1W 2            | 20 6      |
| 19030000             | TRIMBLE, CUTHBERT J.                   | ے م               | 59 3784            | DOWC            | 0.01300                       | N 1020 E<br>N 155 W | 1760 SWSL<br>1830 SFSI   | 35 tw 2            | 20 00     |
| 19030000             | KOURIS, ROSE G. AND MARY N.            | <u>2</u>          | 29 2330            | 2000            |                               |                     |                          |                    |           |
| 700200               |  |                   | 25.25              |                 | _                             | M Z.L. V            | 420 SESL 3               | 25 1W33            | 26        |

|                                    |               |  |                  |                  |   |   |  |                  |                     |                   |                       |                         |                               |                              |                   |   |                                   | -            |                     |                 |  |   |  |                     |   |  |                      |             |                               |                   |  |                         |                          |              |                          |                   |                                       |                     |                   |                  |                 |                               |                   |                              |                             |                                    |                      |          |
|------------------------------------|---------------|--|------------------|------------------|---|---|--|------------------|---------------------|-------------------|-----------------------|-------------------------|-------------------------------|------------------------------|-------------------|---|-----------------------------------|--------------|---------------------|-----------------|--|---|--|---------------------|---|--|----------------------|-------------|-------------------------------|-------------------|--|-------------------------|--------------------------|--------------|--------------------------|-------------------|---------------------------------------|---------------------|-------------------|------------------|-----------------|-------------------------------|-------------------|------------------------------|-----------------------------|------------------------------------|----------------------|----------|
|                                    |               |  |                  |                  |   |   |  |                  |                     |                   |                       |                         |                               |                              |                   |   |                                   |              |                     |                 |  |   |  |                     |   |  |                      |             |                               |                   |  |                         |                          |              |                          |                   |                                       |                     |                   |                  |                 |                               |                   |                              |                             |                                    |                      |          |
| 59<br>59                           | 59            | 20 00                                  | 29               | 59               | 50  | 20 00   | 59   | 29               | 29                  | 29                | 59                    | 29                      | 59                            | 29                           | 29                | 29  | 29                                | 200          | 200                 | 50              | 29   | 59  | 59   | 59                  | 200                                     | 29   | 26                   | 59          | 29                            | ව දි              | 59   | 59                      | 29                       | 59           | ກຸເ                      | 9 O               | 50                                    | 29                  | 29                | 59               | 59              | 59                            | 29                | 59                           | 29                          | 9 2                                | ກເຕີ                 | ລ        |
|                                    |               |  |                  |                  |   |   |  |                  |                     |                   |                       |                         |                               |                              |                   |   |                                   |              | -                   | . 4             |  |   |  |                     |   |  |                      |             |                               |                   | 2  |                         |                          |              |                          |                   |                                       |                     |                   | ٠,               |                 |                               | <u> </u>          |                              |                             |                                    |                      |          |
|                                    | 1W14          | 3S 1W14                                | 630 NESL 2S 1W34 |                  | ٠.  | 1 W 3   |  |                  | 3S 1W14             | 3 1W28            | 3 1W22                | 1W26                    |                               |                              | 1W 2              | 1W22  | 1W27                              | 25 1W33      | 30 10034            | 3S 1W14         | 1W 2   | 1W15  |  |                     | ν<br>γ<br>γ<br>γ                        |  | 3 1W34               | 3 1W15      | 1W27                          | 2879 NESL 3S 1W15 | 170 S4SI 2S 1W28   | 2S 1W28                 | 2S 1W27                  | 3 1W14       | ٠.                       | 35 TWT5           |                                       |                     | 2S 1W35           | 2S 1W35          |                 | •                             |                   |                              |                             |                                    |                      | 1W34     |
|                                    | St 38         | -                                      | 3L 2S            |                  |   | 2<br>2<br>3<br>3<br>3<br>3<br>3                 |  |                  |                     | • •               |                       |                         |                               |                              |                   |   |                                   | ٠,`          | ٠_                  |                 |  | SF 3S                                       |  |                     | ار<br>در در                             | 1  |                      | _           | il. 2S                        | 25.<br>15.        | 25.  |                         |                          |              |                          |                   |                                       | . ``                |                   |                  |                 |                               | - 1               |                              |                             |                                    |                      | SE SS    |
| 1345 NWSL<br>1728 NWSL             | 654 NWSL      | 130 SWSL<br>2820 NWSL                  | 30 NES           | 198 NESL         | 352 E4SL                                    | 150 S4SL<br>150 W4SI                            | 153 W4SL                                       | 805 SWSL         | 1558 NWSL           | 140 N4SL          | 1645 S4SL             | 95 SWSL                 | 200 SESL                      | 1320 NESL                    | 141 SWSL          | 132 W4SL  | 225 E4SL                          | 160 SESE     | 575 CAC             | 2879 NWSI       | 140 N4SL 3S 1W 2                                   | 77 NESL                                     | 1100 S4SL  | 208 N4SL            | 448 N4SL                                | 190 N4SL   | 530 NESL             | 200 N4SL    | 438 S4SL                      | 2879 NESL         | 70 545   | 690 S4SL                | 972 SESL                 | 146 NWSL     | 175 SWSL                 | 2941 NEST         | 107 NIMSI                             | 145 F4SI            | 620 S4SL          | 1625 SWSL        | 130 N4SL        | 300 SESL                      | 2445 NESL         | 1350 NESL                    | 146 N4SL                    | 308 S4SL                           | 6/0 NESL             | 500 E4SL |
| L W                                | ш             |  |                  |                  |   | 1120 W<br>1385 E                                |  | ~                |                     | _                 | _                     | 580 E 9                 | _                             | _                            |                   |   |                                   |              | 423 E 27            | 2211 F 29       |  | -   | ÷  |                     | 3440 E 4                                |  | _                    |             | ~                             | 4158 W 2          |  |                         | _                        |              |                          | 1402 W 2          |                                       |                     | _                 |                  |                 | 230 W                         | _                 |                              | •                           | _ `                                |                      | 200 W    |
|                                    | S 787         | •                                      |                  |                  | 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5     |   |  |                  |                     | •                 | N 18                  | N 58                    |                               |                              |                   | 8<br>z  |                                   |              | 0 4K                | •               | •  | \$ 115                                      |  |                     | 244                                     |  | •                    |             |                               | S 415             | οZ   | z                       | z                        |              | •                        | י<br>מ            | zυ                                    |                     |                   |                  |                 | N 23                          |                   | တ                            | S)                          | ·<br>Z                             | <b>α</b>             | 20       |
|                                    |               | 0.04500                                |                  | 0.01800          | 0.04500                                     | 0.01800   | 0.13000  | 0.009            | 0.01100             | 0.056             | 0.04500               | 0.01100                 | 0.03300                       | 0.75000                      | 0.0000.0          | 0.01100   | 0.03300                           | 0.02700      | 001100              | 0.02200         | 0.00700  | 0.01800                                     | 0.0000.0   | 0.00600             | 0.06700                                 | 0.027  | 0.01100              | 0.01100     | 0.01100                       | 0.04500           | 0.000  | 0.056                   | 0.04500                  | 0.01500      | 0.01100                  | 0.18900           | 2110                                  | 00000               | 0.02700           | 0.02200          | 0.00100         | 0.00400                       | 0.01100           | 0.0200                       | 0.01300                     | 0.08900                            | 0.00100              | 0 25000  |
| 0.0                                | 0.0           | 0.0                                    | 0.0              | 0.6              | 0 0   | 5 0   | 9 0  | 5                | 0.0                 |                   | 0.0                   | 0                       | 0.0                           | 0.7                          | 0.0               | 0.0   | 0.0                               |              | 5 6                 | <i>i</i> c      | 0  | 0.0   | 0.0  | 0.0                 | 5 6                                     | S  | 0.0                  | 0.0         | 0.0                           | ö ö               | Š  |                         | 0.0                      | 0.0          | <u>.</u>                 | ò                 | č                                     | 5 6                 | 0                 | ö                | Ö               | ö                             | ö                 | 0                            | ö                           | Ö.                                 | o (                  | c        |
|                                    |               |  |                  |                  |   |   |  |                  |                     |                   |                       |                         |                               |                              |                   |   |                                   |              |                     |                 |  |   |  |                     |   |  |                      |             |                               |                   |  |                         |                          |              |                          |                   |                                       |                     |                   |                  |                 |                               |                   |                              |                             |                                    |                      |          |
| ပ္စပ္                              | UGWCDIS       | UGWCDIS<br>UGWCDIS                     | ပ                | UGWCDIS          | UGWCDIS                                     | ي د   | UGWCDIS  | UGWCDIS          | UGWCDIS             | UGWCDIS           | UGWCDIS               | υ                       | Q                             | Ω                            | Ω                 | <b>UGWCDIS</b>                                  | ပ္ (                              | ပ္ ပ         | ې ر                 | ي د             | <u> </u>   | UGWCDIS                                     | NGWCDIS  | ي و                 | UGWCDIS                                 |  | ် ဂ                  | JGWCDIS     | Q                             | UGWCDIS           | JGWCDIS  | <u>υ</u>                | Q                        | NGWCDIS      | UGWCDIS                  | UGWCDIS           | GWCDIS                                | ي د                 | 2 Q               | ္ပ               | . Q             |                               | ပ္                | ပ္                           | ပ္                          | ပ္ခ                                | UGWCDIS              | ۲        |
| newc<br>newc                       | NGW           |  | UGWC             | 8 :<br>20 :      | 8 6<br>0                                    |   | 8 8  | §<br>200         | NGN                 | NGM               | NGN                   | NGWC                    | NGWC                          | newc                         | newc              | <u>§</u>  | NGWC                              |              |                     |                 | D G WC   | NG  | §<br>C   | ngwc                | 5 5                                     |  | newc                 | S<br>S      | <br> <br> <br> <br>           | 9                 |  | NGWC                    | NGWC                     | NG<br>NG     | §                        | § 8               |                                       |                     |                   | newc             | UGWC            | 금                             | newc              | NGWC                         | NGWC                        | NGWC                               | O<br>O               | 2        |
| 2829<br>2830                       | 293           | 2292<br>1869                           | 053              | 2045             | 491   | 2553<br>2641                                    | 2467   | 2414             | 809                 | 1930              | 281                   | 3323                    | 2375                          | 2075                         | 351               | 2816  | 1952                              | 2686         | 2543                | 2396<br>2396    | 3005   | 2849  | 1972   | 2862                | 2676                                    | 1855   | 3009                 | 2007        | 214                           | 012               | 16/2<br>2741   | 274                     | 264                      | 59 2033      | 59 2916                  | 1847              | 29 1800                               | 50 2430             | 59 2846           | 371              | 59 2320         | 59 4298                       | 59 2404           | 59 2720                      | 59 2168                     | 2256                               | 2322                 | 2007     |
| 59 2829<br>59 2830                 | 59 2293       | 59 2292<br>59 1869                     | 59 3053          | 59 2             | 59 2491                                     | 59 255  | 59.2   | 59 2             | 59 2608             | 59 1              | 59 2281               | 593                     | 59 2                          | 59 2                         | 59 2351           | 29 2  | 29                                | 262          | 200                 | 2 0             | 59.3   | 59 2  | 59 1   | 29 2                | 262                                     | 2 00   | 593                  | 59 2        | 59 3214                       | 59 3012           | 59 16/2  | 59 2274                 | 59 2264                  | 265          | 29 2                     | 20 5              | ה כ<br>ה                              | 200                 | 2 00              | 59 2371          | 59 2            | 59 4                          | 59 2              | 59 2                         | 265                         | 29 2                               | 29 2                 | C        |
| တ တ                                |               |  |                  |                  |   |   |  |                  |                     |                   |                       | "                       | DS                            |                              | DS                |   |                                   | . ,          | م و                 | 0               | S  |   |  | _                   |   |  |                      |             | "                             |                   |  |                         |                          |              |                          |                   | Q                                     | 2 5                 | 2 2               | 200              | SO              | SQI                           | _                 |                              | _                           | IDS                                |                      | ď        |
| 8 S                                |               | <u>⊇</u>                               | <u> </u>         |                  |   |   | ,  |                  |                     |                   |                       | =                       |                               | _                            |                   |   | ₽.                                | = =          | ַ הַ                | <u> </u>        | 9 0  |   |  | _                   |   |  |                      |             | <u>s</u>                      |                   |  | 2 0                     |                          | -            |                          |                   |                                       | <u> </u>            |                   | <u> </u>         | <u> </u>        | 므                             | ۵                 | =                            | ₽                           | <u>=</u>                           |                      | =        |
|                                    |               |  |                  |                  |   |   |  |                  |                     |                   |                       |                         |                               |                              |                   | <u>-</u> -                                      |                                   |              |                     |                 | <u></u>  | <u>.</u>                                    | SE   |                     |   |  |                      |             |                               |                   |  |                         |                          |              |                          |                   |                                       |                     |                   |                  |                 |                               |                   |                              |                             |                                    |                      |          |
|                                    |               |  |                  |                  |   |   |  |                  |                     |                   |                       |                         |                               |                              |                   | E DEPT.   |                                   |              |                     |                 | BICHARDSON DIJANE G (TRUSTEE BICHARDSON FAMILY T.) | !   | SALT LAKE COUNTY C/O BILL DUNN MTN. VIEW GOLF COURSE |                     |   |  |                      |             |                               |                   |  |                         |                          |              |                          |                   |                                       |                     |                   |                  |                 |                               |                   |                              |                             |                                    |                      |          |
|                                    |               |  |                  | ĺ                | RICT)                                       |   |  |                  |                     |                   |                       |                         |                               |                              |                   | SALT LAKE COUNTY, REAL ESTATE DIVISION, FINANCE |                                   |              |                     |                 | ON FA  | RICT)                                       | GOLF   | ;                   | <u>}</u> }                              | ž  |                      |             |                               |                   |  |                         |                          |              |                          |                   |                                       |                     |                   |                  |                 |                               |                   |                              |                             |                                    |                      |          |
|                                    |               |  |                  | 1                | BOARD OF EDUCATION (JORDAN SCHOOL DISTRICT) |   |  |                  |                     |                   |                       |                         |                               |                              |                   | ON, F   |                                   |              |                     |                 | ARDS   | BOARD OF EDUCATION (JORDAN SCHOOL DISTRICT) | VIEW   |                     | SOUTHERN PACIFIC TRANSPORTATION COMPANY |  |                      |             |                               |                   |  |                         |                          |              |                          |                   |                                       |                     |                   |                  |                 |                               |                   |                              |                             |                                    |                      |          |
|                                    |               |  |                  | (                | <u> </u>                                    |   |  |                  |                     |                   |                       |                         |                               |                              |                   | DIVIS   |                                   |              |                     |                 | ECH  | E<br>S<br>S                                 | MTN.   | (                   |   |  |                      |             | ٠                             |                   | CAIN, DONEL D. AND VELMA M.<br>STEINEEL DT. MAD! IN 1. AND DODA! YN M. | 2                       |                          |              |                          |                   |                                       |                     | _                 |                  |                 |                               |                   |                              |                             | JST)                               |                      |          |
|                                    |               |  |                  | •                | N SC  | Ω.  |  |                  |                     |                   |                       |                         | <b>~</b> ∶                    | ر<br>ند                      |                   | ATE   | JORDAN, DEAN L. III AND ROXANE D. |              |                     |                 | STEE   | N SC  | SUNN   | i                   | RTAT                                    | <u> </u>   |                      |             | ENE S                         |                   | . 0  | ξ<br>5 <b></b>          |                          |              |                          |                   | IESCH, WILLIAM H. AND BARBAKA J.      |                     | NOGIANES, JOHN G. |                  |                 | FULLMER, LAWRENCE W. & MARY E |                   | \                            |                             | CARDWELL, ROBERT L. (FAMILY TRUST) |                      |          |
|                                    | 3             | ≶                                      |                  |                  | ORD/  | SCHMIDT, PAUL D.<br>WILCOX WAITER CAND NELLIE'S | ֡֝֝֡֝֝֡֡֝֝֡֝֡֝֡֡֝֝֡֓֓֓֓֓֓֓֡֡֡֡֓֜֜֜֓֓֓֓֡֡֡֡֡֡֡֡ |                  |                     |                   |                       | <u>S</u>                | BETTS, REID G. AND LUCILLE B. | BIGLER, LOUIS B. AND HAZEL A |                   | LESI  | ROX/                              |              |                     |                 | TRIE   | ORD   |  |                     | SPO                                     | 25   |                      |             | MCDONALD, JULIUS M. AND IRENE | ;                 | ¥  | MADSEN WAYNE AND MARION | ANA                      |              | s<br>S                   |                   | 3AKB                                  |                     | Z GIV             |                  |                 | %<br>₩                        |                   | HAMILTON, LOWELL AND MARY L. | MABEY, DANIEL L. AND ANN W. | FAMIL                              |                      |          |
|                                    | 3             | \<br>\<br>\<br>\<br>\                  |                  | ;                | 2<br>NO                                     | CNA   | į  |                  | NO                  | _                 | TION                  | » WILL                  | DO!                           | ₽H                           |                   | , REA   | AND                               | _            | r-i                 |                 | Ē,   | SNO<br>ON                                   | 000  | Ξĺ                  | A F                                     | Ž  | Ą.                   | ;           | M.                            | į                 | 2  | , <u>S</u>              | J.C.R.                   |              | D RAE                    |                   | AND X                                 | <u>.</u> ;<br>≻     | 7                 | }<br>{<br>}<br>> |                 | CE W                          |                   | AND                          | ND A                        | ]<br> -<br> -                      | RD B.                | :        |
| X K                                |               | SCUS                                   | Ä                | e i              | ZA<br>Z                                     | ה ה<br>ה<br>ה                                   | \<br>\<br>\<br>\<br>!                          | . X              | SAKS                | Õd.               | PORA                  | AME                     | AND.                          | ₽.                           | ELLJ              | Z N   | ≡<br>⊒.                           | - i          | Z<br>Z<br>Z         | 2               | \$ \frac{1}{2}                                     | JCAT  | NNT.   | UART                | CIFIC                                   | 7  | C                    |             | JLIUS                         | ح<br>ح√           | ANE  | N N                     | OAN                      | _            | DAN                      | S C               | Ξ, L                                  |                     | יים<br>מיים       | . H              | N<br>N          | /REN                          | ∑                 | WELL                         | LL.A                        | OBER                               | MA<br>MA             |          |
| RAN                                | HENA          | REID, JOHN A AND N<br>MITCHELL. MARCUS | PATTERSON, REX   | BIGLER, LOUIS B. | FEDU  | SCHMIDI, PAUL D<br>WII COX WAI TER              | YOUNG PARLEY A                                 | FINLAYSON, MAX A | CASH, LAVON ISAKSON | ROBERTS, G. ELDON | DIXIE SIX CORPORATION | GOODRIDGE, JAMES WILLIS | EID G                         | SINO                         | COOPER, NEWELL J. | E 00  | DEAN                              | PANDO, JACOB | SHULSEN, LARKEN H.  | SIMILITY, T. E. |  | FED   | E 00   | RICHARDS, STUART H. | Z Z                                     | SOUTHERN PACTURES OF THE CONTRIBUTION OF THE C | WEST JORDAN, CITY OF | 띪           | ار (م                         | NIELSEN, HENRY D  | 1 E  | - X                     | NOGALES, RITO AND URVANA | NAYLOR, DEAN | CRANE, J. REED AND RAE S | BRECKON, DAVID C. | V   -   -   -   -   -   -   -   -   - | PETERSON, RODNEY K. | NOGIANES, JOHN G. | GARDNER RAIPH W  | MCKEE CLIFTON A | Š                             | BILLS, CECELIA M. | N, LO                        | ANE                         | L, R                               | BECKSTEAD, EDWARD B. | 9        |
|                                    | Z S           | 걸                                      | rers(            | ER, L            | RD Q  | ֓֞֝֝֟֝֝֟֝֝֟֝֝֝֟֝֝֝<br>֓֞֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞     | 8<br>8<br>8                                    | AYSC.            | Ξ                   | ERTS              | SIX                   | DRIC                    | IS, RI                        | ER, L                        | PER,              | LAK   | DAN,                              |              | בות<br>העוד<br>העוד | SIMILITY T. E.  | ARD  | RDO   | LAK  | 4ARD                | HH                                      |  |                      | HOLT, MARIE | ONA                           | SEN               | ֓֞֞֞֝֞֞֞֞֞֞֞֞֞֞֞֞֝֞֞֝֓֞֝֟֝֓֞֝֓֞֝֓֓֞֝֟֝֓֡֝֝֡֝֝֡֝֝֡֝֝֡֝֝֡֝֡֝֡֝           | N L                     | ALES                     | LOR,         | 고<br>및                   | Š<br>S<br>S       | 5 E                                   | 727                 | TANK<br>TOT       | ין בו<br>היו היו | T H             | LMER                          | S                 | <b>LT</b> 0                  | ĔΥ, C                       | DWE                                | KSTE                 |          |
| R R                                | 8             | -:-                                    |                  | _ `              | <i>-</i>                                    | ÷ (   | ≀ =  | > ⊒              | တ                   | m                 | ₹                     | Š                       | Ë                             | ᄓ                            | 8                 | ٦   | 8                                 | Z :          | 2 5                 | <u> </u>        | 5 <u>c</u>   | ð   | Ä  | \$ ₹                | $\frac{1}{2}$                           | 2 4  | ES S                 | 김           | 8                             | 古 :               |  | <u> </u>                | 8                        | ¥            | չ                        | ᄴ                 | Ωŀ                                    | 6                   | ₹≡                | = 4              | ; ×             | ; ⊒                           | ·!                | >                            | m                           | œ                                  | Ö                    | ļ        |
| TAYLOR, FRANK L<br>TAYLOR, FRANK L | NELSON, HENRY | X M                                    | PAT              | BIG              | 80  | <u>}</u> ₹                                      | Š  | 2 ≧              | ర                   | 2                 | <u> </u>              | <u>8</u>                | <u> </u>                      | <u></u>                      | <u>ठ</u>          | 3   | 3.                                | <u> </u>     | ח נ                 | 0               | 20 (2  | <u> </u>                                    | (C)  | LE (                | 0) (                                    | <u>ი</u> ⊢   | - >                  | Ĭ           | Σ                             | Z (               | 3 0  | ე ≥                     | Ž                        | z            | ပ                        | 面 j               | = 2                                   | <u> </u>            | 2 0               | <u> </u>         | ž               | <u> </u>                      | <u>=</u>          | ¥                            | ¥                           | ₹                                  | 8                    | 5        |
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|---|---|---|-----------------------|----------------|--------------------|--------------|--|------------------|--------------------|---|------------------|----------------------------------|-------------|---|---------|---------|------------------|-------------------------------|--|---------|--------------------------------|------------------|---------|----------------------------------|-----------------------------|---------|---------------------------------|--|----------|-----------------|---|---------|--------------------------------------|-----------------------------------|--------------------------------------|---------|-----------------------------------|------------------|---------------|----------------------|--------------------|
| 59<br>59  | 29<br>29  | 59  | 20                    | 23             | 29                 | 29           | 20.0   | 20               | 20                 | 2 2   | 26<br>28         | 29                               | 26          | 20  | 20 00   | 26      | 29               | 20<br>20                      | 20 20  | 20      | 20 20                          | 20 2             | 9       | 2 3                              | 20                          | 29      | 20                              | 200  | 29       | ည က             | 20.00                                     | 29      | 2 2                                  | 29                                | 29                                   | 20      | 2 G                               | 29               | 29            | 20                   | 29                 |
|   | SL 3S 2W34<br>SL 3S 1W21                          | 38  |                       |                | SL 3S 1W26         |              |  | 33               | 82                 | SL 25 1W28  | 186 N4SL 3S 1W29 | /SL 3S 1W28                      |             | SL 3S 1W28                                    | 38      | 38      | . 38             | SL 3S 1W 3                    | 3 %  |         | SL 3S 1W3                      | 115 N4SL 3S 1W16 |         | 530 SWSL 25 1WZ6                 | SL 3S 1W32                  | 38      | ESL 3S 1W20<br>FSI 3S 1W15      | 38   | 38       | ISL 3S 1W29     | ISL 3S 1W16                               |         | 78 E4SL 3S 1W21<br>3334 SWSL 3S 2W 8 | VSL 2S 1W26                       |                                      | ∾.      | 920 NESL 3S 1W30                  | 325 N4SL 3S 1W26 |               | SL 2S 1W35           | 28                 |
| 0 W 936 SESL<br>) W 50 NESL (   | 1275 W 270 S4SI<br>255 W 105 E4SL                 |   | 4 (-                  | _              | 65 W 145 N45L .    |              | •  |                  |                    | 2540 W 120 S4SL 1403 W 4740 NESI                  |                  | ~                                |             | 119 W 339 NESL                                |         |         |                  | 147 W 706 E4SL                |  |         | 860 E 220 N4SL 3               |                  | _       | 1580 E 530 SWSL<br>75 W 220 E4SI |                             | •       | 2543 W 648 NESL                 | • • •  |          | 1437 W 165 N4SL |   |         | 166 W 78 E4SL<br>100 F 3334 SWS      |                                   |                                      | _       | 141 W 920 NESL<br>03 E 127 NASL 3 | ·<br>>           | _             | 660 E 85 NWSL 2S     | `                  |
| zσz   | 0.01500 N 1273<br>0.02200 N 255                   | ဟ 2   | zσ                    | zο             | 0.02200 S 1178     | z            | 0.22200 N 302 W<br>0.06700 S 480 E                         | S                | z                  | 0.022 N 254                                       | တ                | z                                | z           | 0.02200 S 119 W                               | o z     | ်       | S                | 2.00000 N 147 W               | ) Z  |         | 0.00000 S 860<br>6.00000 N 202 | z vo             | s :     | 3.50000 N 158                    | ာတ                          | S       | 0.01100 S 254                   | Z  | 'n       | 0.01500 S 143   | o z                                       | S       | 0.02200 S 166                        | z                                 | z                                    | z       | 0.00000 S 147                     | ာ ဟ              | ်             | 0.22000 S 660        | o z                |
| 0.0   | 0.0   | 0.0   | 0.0                   | 0.0            | 0.0                |              | 7.0  |                  | 0.0                |   | 0:0              |                                  | 0.0         | 0.0   | - 00    | 0.0     | 0.0              | 5.0                           | 3.0  | 0.0     | 0.0                            | 0.0              | 0.0     | 3.5                              | 0.0                         | 0.0     | 0.0                             | 0.0  |          | 0.0             |   | 0.0     | 0.00                                 | 0.0                               | 0.5                                  | 0.5     | 0.00                              | 0.0              | 0.0           | 0.2                  | 0.0                |
| UGWCDIS   | UGWC  | UGWCDIS   | UGWCDIS               | newc           | UGWCDIS            | UGWCDIS      | UGWCDIS  | UGWC             | UGWC               | UGWCDIS   | ngwc             | UGWCLAPD                         | newc        | newc  | UGWCDIS | UGWC    | UGWCDIS          | UGWC                          | LGWC   | UGWC    | UGWCDIS                        | newc             | newc    | newc                             | ngwc                        | UGWC    | UGWCDIS                         | UGWCDIS  | UGWCLAPD | ngwc            | newc                                      | UGWC    | UGWCLIT                              | UGWCDIS                           | UGWCDIS                              | NGWCDIS | ngwc                              | O COMO           | NGWC          | UGWCDIS              | UGWC               |
| 59 2183   | 59 3177<br>59 2131                                | 59 2133   | 59 2972<br>59 2170    | 59 3076        | 59 2290<br>59 2169 | 59 2052      | 59 2631  | 59 3246          | 59 2429            | 59 1993   | 59 2683          | 59 2409                          | 59 1838     | 59 2354                                       | 59 1966 | 59 2685 | 59 2844          | 59 2434                       | 59 2453  | 59 2817 | 59 2687                        | 59 2034          | 59 3042 | 59 2457                          | 59 2416                     | 59 3769 | 59 3122                         | 59 2084  | 59 2410  | 59 3263         | 59 2269                                   | 59 5464 | 59 3746                              | 59 27 30<br>59 1969               | 59 2556                              | 59 2555 | 59 2318                           | 59 5473          | 59 5473       | 59 2883              | 59 3797<br>59 3797 |
| S   | SQ  | c   | •                     |                |                    |              |  |                  |                    |   | <b>~</b>         |                                  |             | Ś   |         | DS      |                  |                               |  | DS      | ·                              | SO<br>DS         | တ       | so u                             | s<br>S                      | SOI     |                                 |  |          | ۵ م             | SOS                                       | S       |                                      |                                   |                                      |         |                                   | n w              | Ś             |                      | _ SQ               |
| ATED  |   |   | <u> </u>              | σ <sub>-</sub> | _                  |              |  |                  | Ω                  |   | <u>10</u> 8      |                                  | _           | <u>S</u> c                                    |         | ۵       |                  |                               |  |         |                                | <u>- =</u>       |         |                                  | _ =                         |         |                                 |  |          | <u> </u>        | 3 0                                       | SQI     | တ                                    | _                                 |                                      |         | 0, 0                              | ==               | =             |                      |                    |
| BLOOD, KAY H.<br>CONTINENTAL COPPER AND STEEL INDUSTRIES INCORPORATED | DANSIE, JESSE H.<br>WILKINSON, RICHARD AND ROMONA | LDS CHURCH, MILL CREEK STAKE, ATTN: H. D. LOWRY | AND ELLEN E.<br>'A F. | -              | CAHOON JAY C.      | TESCH, ARDEN | ERICACIO, ERNESI G.<br>L. N. HUTCHINGS & SONS INCORPORATED | BIGLER, LOUIS B. | GARDNER, DUNCAN R. | JENOEN, MIKO, GEOKGE M. JENOEN VERNON R. AND FERN | AICE .           | NEWTON, WILLIAM D. AND LAVELL E. | AND DARLENE | GLOVER, GEOFFREY ORTEGA JOSEPH A AND ZEI MA M |         |         | PETERSEN, ROY C. | BIGLER, LOUIS B. AND HAZEL A. | WALNER, ARLEINE D. NORTH JORDAN IRRIGATION COMPANY |         | SHARP, YOUNG                   |                  |         | SATION COMPANY                   | HEUGHS CREEK ASSOCIATES LLC |         | SIMMONS, KENNETH M. & ONEITA P. | INATIVARD, LIFECUORE<br>STATE OF UTAH DEPARTMENT OF TRANSPORTATION |          |                 | BROADHEAD, ARVIS E.<br>MCMULLIN. CLELL V. |         |                                      | KENNECOLI OLAH COPPER CORPORALION | ACCOUNTING AND MANAGEMENT ASSOCIATES | -       |                                   | BOSSHAKDI, JOHN  | L. & PEGGY Z. | WEST JORDAN, CITY OF | OLSEN, JOHN H.     |

| 1   98 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108E 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108EE 0 ONNES, 35 W/2   SP 4289   ONC   2 50000   108E 0 ONS   SP 4289   ONC   2 50000   108EE 0 ONS   SP 4289   ONC   2 50000   ONC   2 5000   | R. EDMIN F. & JOHN R. SERVICH R. EDMIN F. & JOHN R. SERVICH R. EDMIN F. & JOHN R. SERVICH R. MRS. CLYDE R. MRS. CLYDE R. MRS. CLYDE R. MRS. CLYDE R. WARSON AND RUBY R. MOODROW AND RUBY R. HOWARD R. THELMA A. LAVER! (GENERAL PERSONAL REPRESENTATIVE) R. HOWARD C. TUAKEN COTT UTAH COPPER CORPORATION R. JOSE R. JOHN ROY R. JON TROY R. JOSEPH R. R. JOHN ROY R. JOSEPH R. R. JOSEPH R. R. JOSEPH R. R. JOSEPH R. R. JOHN ROY R. JOSEPH R. R | 2.50000 S 1068 E 60 NWSL 3S 1W 2 2.50000 S 1068 E 60 NWSL 3S 1W 2 2.50000 S 1068 E 60 NWSL 3S 1W 2 0.04500 S 2536 W 280 NESL 3S 1W4 4 0.02700 N 1030 W 615 SESL 3S 1W4 4 0.02400 S 1401 W 290 NASL 3S 1W16 0.03400 S 1401 W 290 NASL 3S 1W16 0.01500 S 1401 W 290 NASL 3S 1W3 4 0.01500 S 1401 W 290 NASL 3S 1W3 4 0.01500 N 1362 E 650 SWSL 2S 1W34 0.01500 N 1025 E 195 SASL 2S 1W35 0.01500 N 1025 E 195 SASL 2S 1W35 0.01500 N 1025 E 195 SASL 3S 1W 2 0.01500 N 1025 E 195 SASL 3S 1W 2 0.01500 N 200 W 1975 E4SL 3S 1W 2 0.01500 N 200 W 1975 E4SL 3S 1W 2 0.01500 N 200 W 1975 E4SL 3S 1W 2 0.01500 N 200 W 1975 E4SL 3S 1W 2 0.01500 N 200 W 1975 E4SL 3S 1W 2 0.01500 N 200 W 1975 E4SL 3S 1W 2 0.01500 S 1043 E 140 NWSL 3S 1W16 0.01500 S 1043 E 140 NWSL 3S 1W16 0.01500 S 1025 W 165 NASL 3S 1W16 0.01500 S 1025 E 1185 NASL 3S 1W14 0.01500 S 1235 E 1185 NASL 3S 1W14 0.01500 S 1235 E 1185 NASL 3S 1W3 0.01500 S 595 W 163 NASL 3S 1 |
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| 18   99.3890   UGWC   2500000   S1088   E 00.WRSL 35 WW2   19 89 99.399   UGWC   0.052000   S298   S288   S288   S288   S289     | R. H. S.   | 2.50000 S 1068 E 60 NWSL 3S 1W 2 2.50000 S 1068 E 60 NWSL 3S 1W 2 0.04500 S 2536 W 280 NESL 3S 1W4 4 0.02200 N 1030 W 615 SESL 3S 1W4 6 0.02400 S 1401 W 290 NASL 3S 1W4 6 0.03400 S 1401 W 290 NASL 3S 1W4 6 0.01500 S 1401 W 290 NASL 3S 1W4 7 0.01500 N 1362 E 650 SWSL 3S 2W32 0.01500 N 1058 E 118 SWSL 2S 1W34 0.01500 N 1056 E 195 SASL 2S 1W35 0.01500 N 1025 E 195 SASL 2S 1W35 0.01500 N 1025 E 195 SASL 3S 1W2 0.01500 N 1025 E 195 SASL 3S 1W2 0.01500 N 200 W 1975 E4SL 3S 1W3 0.01500 S 1043 E 1142 W4SL 3S 1W3 0.01500 S 1043 E 140 NWSL 3S 1W3 0.01500 S 1043 E 105 NASL 3S 1W3 0.01500 S 1000 E 105 NASL 3S 1W3 0.01500 S 1025 W 168 NASL 3S 1W3 0.01500 S 1025 W 168 NASL 3S 1W3 0.01500 S 1235 E 1185 NASL 3S 1W3 0.01500 S 1235 E 1185 NASL 3S 1W3 0.01500 S 592 W 163 NASL 3S 1W3 0.01500 S 592 W 163 NASL 3S 1W3 0.01500 S 592 W 163 NASL 3S 1W3 0.01500 S 595 W 225 E4SL 2S 1W27 0.01500 S 595 W 225 R4SL 2S 1W27 0.01500 S 595 W 225 E4SL 2S 1W27  |
| STATE   STAT   | DS 59 3250 DS 59 3250 DS 59 3250 DS 59 3250 DS 59 4299 DS 59 424 DS 59 4299 DS 59 429 DS 59 44 DS 59 429 DS 59 44 DS 59 46 DS 59 40 DS 59 41 DS 59 41 DS 59 41 DS 59 42 DS 59  | 0.04500 S 2536 W 280 NESL 35 1W2 0.04500 S 2536 W 280 NESL 35 1W4 0.02200 S 400 W 125 N4SL 35 1W4 0.02200 S 400 W 125 N4SL 35 1W4 0.02200 S 432 W 168 N4SL 35 1W4 0.03400 N 1362 E 650 SWSL 35 1W4 0.01500 S 432 W 168 N4SL 35 1W3 0.01500 N 1362 E 650 SWSL 35 1W3 0.01500 N 106 E 128 0W 145 E4SL 25 1W34 0.01500 N 1025 E 195 S4SL 35 1W2 0.01500 N 1025 E 195 S4SL 35 1W2 0.01500 N 1025 E 195 S4SL 35 1W3 0.01500 N 200 W 1975 E4SL 35 1W2 0.01500 N 200 W 1975 E4SL 35 1W2 0.01500 N 200 W 1975 E4SL 35 1W2 0.01500 N 200 E 1280 NWSL 35 1W2 0.01500 N 200 W 1975 E4SL 35 1W2 0.01500 S 1098 E 1142 W4SL 35 1W14 0.01500 N 1230 W 895 E4SL 35 1W3 0.01500 S 1235 E 1185 N4SL 35 1W3 0.01500 S 1235 E 1185 N4SL 35 1W3 0.01500 S 592 W 163 NESL 35 1W3 0.01500 S 585 W 225 E4SL 25 1W27 0.01500 S 585 W 225 E4SL 25 1W87  |
| DR HUBY         100         56 4299         DILL         0127200         5 90 WKR1.         5 10 WKR1.         5   | D RUBY  D RUBY  D RUBY  D RUBY  ER CORPORATION  FAL PERSONAL REPRESENTATIVE)  FOR THE STATE STAT | 0.02200 N 1030 W 615 SESL 3S 1W4 4 0.02200 S 50 W 125 N4SL 3S 1W15 0.03400 N 1362 E 650 SWSL 3S 1W15 0.00400 N 1362 E 650 SWSL 3S 1W15 0.01500 S 432 W 168 N4SL 3S 1W3 4 0.01500 N 1362 E 650 SWSL 3S 1W3 0.01500 N 1025 E 195 S4SL 3S 1W2 0.01500 N 1025 E 195 S4SL 3S 1W2 0.01500 N 1025 E 195 S4SL 3S 1W2 0.01500 N 200 W 1975 E4SL 3S 1W2 0.01500 N 625 W 110 S4SL 3S 1W1 0.01500 N 625 W 110 S4SL 3S 1W1 0.01500 N 1230 W 895 E4SL 3S 1W1 0.01500 S 1235 E 1185 N4SL 3S 1W2 0.01500 S 1235 E 1185 N4SL 3S 1W2 0.01500 S 585 W 163 NESL 3S 1W2 0.01500 S 585 W 225 E4SL 2S 1W27 0.01500 S 585 W 225 E4SL 2S 1W27 0.01500 S 585 W 225 E4SL 2S 1W27 0.01500 N 110 E 1630 SWSL 3S 1W8  |
| BYOLOGY   BYOL   | D O 59 4544  | 0.02200 S 50 W 125 N4SL 3S 1W10 0.03400 N 1362 E 650 SWSL 3S 1W15 0.00400 N 1362 E 650 SWSL 3S 1W15 0.00400 N 1362 E 650 SWSL 3S 1W34 0.01500 S 432 W 168 N4SL 3S 1W34 0.01500 N 1026 E 178 SWSL 2S 1W26 0.01500 N 1025 E 195 S4SL 3S 1W2 0.01500 N 1025 E 195 S4SL 3S 1W2 0.01500 N 1025 E 195 S4SL 3S 1W2 0.01500 N 200 W 1975 E4SL 3S 1W2 0.01500 N 625 W 110 S4SL 3S 1W11 0.01500 N 625 W 110 S4SL 3S 1W11 0.01500 N 450 E 396 S4SL 2S 1W3 0.01500 N 1230 W 895 E4SL 3S 1W3 0.01500 S 1235 E 1185 N4SL 3S 1W3 0.01500 N 412 E 35 SWSL 3S 1W3 0.01500 S 585 W 225 E4SL 2S 1W27 0.03200 N 412 E 35 SWSL 3S 1W8  |
| PRINCE   P   | FER CORPORATION  S   | 0.03400 S 1401 W 290 N4SL 3S 1W45 0.00400 N 1362 E 650 SWSL 3S 2W32 0.01500 S 432 W 168 N4SL 3S 1W4 4 0.01500 S 290 W 145 E4SL 2S 1W4 4 0.01500 N 3068 E 118 SWSL 2S 1W35 0.01500 N 116 E 672 W4SL 3S 1W2 0.01500 N 102 E 195 S4SL 3S 1W35 0.01500 N 102 E 195 S4SL 3S 1W32 0.01500 N 200 E 90 W4SL 3S 1W2 0.01500 N 1230 E 91 M2 1142 W4SL 3S 1W1 0.01500 S 1043 E 140 NWSL 3S 1W32 0.01500 N 1230 W 895 E4SL 3S 1W1 0.01500 N 1230 W 895 E4SL 3S 1W3 0.01500 N 1230 W 895 E4SL 3S 1W3 0.01500 S 1235 E 1185 N4SL 3S 1W3 0.01500 S 592 W 163 NESL 3S 1W3 0.01500 S 595 W 163 NESL 3S 1W3 0.01500 S 595 W 163 NESL 3S 1W3 0.01500 S 595 W 212 NESL 3S 1W3 0.01500 S 585 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W8  |
| S  | RAL PERSONAL REPRESENTATIVE)  15 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19   | 0.01500 N 120 L 0.03 0 M 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| Pack   Personal Representative   D   | ID 59 388 D 59 405 D 59 404 IS 59 405 IS 59 564 IDS 59 569 IDS 59 689 IDS 69 686 IDS 69 696 IDS 69 1007 ID 0 59 1102 ID 0 59 1102 ID 0 59 1106 ID 0 59 1209 ID  | 0.01500 S 290 W 145 E4SL 2S 1W34 0.01500 N 3068 E 118 SWSL 2S 1W26 0.01500 N 116 E 672 W4SL 3S 1W2 0.01500 N 106 E 1280 NWSL 2S 1W35 0.01500 N 1025 E 195 S4SL 3S 1W2 0.01500 N 1025 E 195 S4SL 3S 1W2 0.01500 N 230 E 90 W4SL 3S 1W15 0.01500 N 230 E 90 W4SL 3S 1W2 0.01500 N 100 W 1975 E4SL 3S 1W1 0.01500 N 100 W 100 W 100 W 100 W 100 0.01500 N 100 W 10 |
| S  | ATIVE)  D  59 404  IS  59 405  IS  59 405  IS  59 564  IDS  59 584  IDS  59 609  59 684  IDS  59 684  IDS  59 686  IDS  59 686  IDS  59 686  IDS  59 1006  IDS  59 1007  IDS  59 1100  59 1112  IDS  59 1116  IDS  59 1189  IDS  59 1249   | 0.01500 N 3068 E 118 SWSL 2S 1W26 0.01500 N 116 E 672 W4SL 3S 1W2 0.01500 S 400 E 1280 NWSL 2S 1W35 0.01500 N 1025 E 195 S4SL 3S 2W33 0.01500 N 1025 E 195 S4SL 3S 1W21 0.01500 N 230 E 90 W4SL 3S 1W22 0.01500 N 230 E 90 W4SL 3S 1W2 0.01500 N 230 E 90 W4SL 3S 1W2 0.01500 N 230 E 90 W4SL 3S 1W2 0.01500 N 230 E 90 W4SL 3S 1W15 0.01500 N 100 W 1975 E4SL 3S 1W2 0.01500 S 1043 E 1142 W4SL 3S 1W2 0.01500 N 100 E 105 N4SL 3S 1W16 0.01500 N 60 E 105 N4SL 3S 1W16 0.01500 N 1230 W 895 E4SL 3S 1W14 0.01500 N 1230 W 895 E4SL 3S 1W14 0.01500 S 1235 E 1185 N4SL 3S 1W3 0.01500 S 592 W 163 NESL 3S 1W3 0.01500 S 598 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W8   |
| S  | ATIVE)  IS 59 405  18 59 405  IS 59 564  IDS 59 589  IDS 59 669  IDS 59 669  IDS 59 666  IDS 59 666  IDS 59 1116  IDS 0 59 1180  IDS 1249   | 0.01500 N 116E 672 W4SL 3S 1W2 0.01500 S 400E 1280 NWSL 2S 1W35 0.01500 N 1025E 195 S4SL 3S 2W33 0.01500 N 1025E 195 S4SL 3S 1W21 0.01500 N 230E 90 W4SL 3S 1W22 0.01500 N 230E 90 W4SL 3S 1W5 0.01500 N 230E 90 W4SL 3S 1W5 0.01500 N 230E 90 W4SL 3S 1W75 0.01500 S 49E 75 NWSL 3S 1W2 0.01500 S 103E 1142 W4SL 3S 1W2 0.01500 S 103E 140 NWSL 3S 1W2 0.01500 N 625W 10 S4SL 3S 1W16 0.01500 N 625W 10 S4SL 3S 1W16 0.01500 N 1230 W 895 E4SL 3S 1W14 0.01500 S 1235 E 1185 N4SL 3S 1W3 0.01500 S 592 W 163 NESL 3S 1W3 0.01500 S 598 W 212 NESL 3S 1W3 0.01500 S 598 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W 8   |
| 59 420         APPLIDIS         0.01500   S. 400 E 1280 NW3L 2S 1W35           1S         59 564         APPLINPR         0.01500   S. 401 E 899 W4SL 3S 1W75           1D         59 569         APPLINPR         0.01500   N 1025 E 135 S4SL 3S 1W75           1D         59 569         APPLINPR         0.01500   N 1236 E 90 W4SL 3S 1W75           1D         59 589         APPLINPR         0.01500   N 200 E 90 W4SL 3S 1W75           1D         59 641         APPLINPR         0.01500   N 200 E 90 W4SL 3S 1W75           1D         59 643         APPLINPR         0.01500   S 49 E 75 NWSL 3S 1W2           1D         59 644         APPLINPR         0.01500   S 109 W 189 K4SL 3S 1W17           1D         59 666         APPLINPR         0.01500   S 100 W 187 K4SL 3S 1W17           1D         59 666         APPLINPR         0.01500   S 1236 E 1148 M4SL 3S 1W3           1D         59 666         APPLINPR         0.01500   S 1236 E 1148 M4SL 3S 1W3           1D         59 1017         APPLINPR         0.01500   S 1236 E 1148 M4SL 3S 1W3           1D         59 1018         APPLINPR         0.01500   S 1236 E 1148 M4SL 3S 1W3           1D         59 1019         APPLINPR         0.01500   S 1236 E 1142 W4SL 3S 1W3           1D         59 1016         APPLINPR  | 18 59 420 18 59 524 19 59 564 10 59 581 10 59 581 10 59 684 10 59 684 10 59 684 10 59 684 10 59 684 10 59 684 10 59 684 10 59 686 10 69 1007 10 69 1007 10 69 1007 10 69 1100 10 69 1100 10 69 1100 10 69 1100 10 69 1100 10 69 1100 10 69 1100 10 69 1100 10 69 1100 10 69 1100 10 69 1100 10 69 1249 11 69 1249 11 69 1249 11 69 1249 11 69 1249 11 69 1249 11 69 1249 11 69 1249 11 69 1249 11 69 1249 11 69 1249   | 0.01500 S 400 E 1280 NWSL 2S 1W35 0.01500 N 1025 E 195 S4SL 3S 2W33 0.01500 N 600 E 99 W4SL 3S 1W21 0.01500 N 230 E 90 W4SL 3S 1W2 0.01500 N 230 E 90 W4SL 3S 1W2 0.01500 N 230 E 90 W4SL 3S 1W5 0.01500 S 49 E 75 NWSL 3S 1W 2 0.01500 S 109 W 168 NSL 3S 1W 2 0.01500 N 629 W 168 NSL 3S 1W1 0.01500 N 629 W 168 NSL 3S 1W1 0.01500 N 629 W 168 NSL 3S 1W1 0.01500 N 1230 W 895 E4SL 3S 1W1 0.01500 N 1230 W 895 E4SL 3S 1W1 0.01500 S 1235 E 1185 N4SL 3S 1W3 0.01500 S 592 W 163 NESL 3S 1W3 0.01500 N 420 E 396 S4SL 2S 1W3 0.01500 N 420 E 396 S4SL 2S 1W3 0.01500 S 592 W 163 NESL 3S 1W3 0.01500 S 592 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W 8  |
| S  | 1.8 59 526 1.0 59 584 1.0 59 581 1.0 59 684 1.0 59 684 1.0 59 685 1.0 59 686 1.0 59 686 1.0 59 686 1.0 59 686 1.0 59 1007 1.0 59 1007 1.0 59 1007 1.0 59 1007 1.0 59 1007 1.0 59 1189 1.0 59 1189 1.0 59 1249  | 0.01500 N 1025 E 195 S4SL 35 2W33 0.01500 N 600E 99 W4SL 35 1W21 0.01500 N 230 E 90 W4SL 35 1W2 0.01500 N 230 E 90 W4SL 35 1W2 0.01500 N 230 E 90 W4SL 35 1W2 0.01500 S 49E 75 NWSL 35 1W2 0.01500 S 1043 E 1142 W4SL 35 1W2 0.01500 S 1043 E 140 NWSL 35 1W2 0.01500 N 625 W 110 S4SL 35 1W16 0.01500 N 625 W 110 S4SL 35 1W17 0.01500 N 1230 W 895 E4SL 35 1W14 0.01500 N 1230 W 895 E4SL 35 1W14 0.01500 S 1235 E 1185 N4SL 35 1W3 0.01500 S 592 W 163 NESL 35 1W3 0.01500 S 592 W 163 NESL 35 1W3 0.01500 N 412 E 35 SWSL 33 1W3 0.01500 N 412 E 35 SWSL 33 1W3 0.01500 N 412 E 35 SWSL 35 1W3 0.01500 N 410 E 1630 SWSL 35 1W 8   |
| 15   59 564   APPLINER   0.01500   N 200   9 04451, 35 1 W 2     15   59 569   APPLINER   0.01500   N 200   9 04451, 35 1 W 2     16   59 581   APPLINER   0.01500   N 200   9 04451, 35 1 W 2     17   59 668   APPLINER   0.01500   S 465   143 W 461, 35 1 W 2     18   59 666   APPLINER   0.01500   S 465   143 W 461, 35 1 W 2     19   59 666   APPLINER   0.01500   S 465   143 W 461, 35 1 W 2     10   59 666   APPLINER   0.01500   S 465   143 W 461, 35 1 W 2     10   59 666   APPLINER   0.01500   S 465   140 W 461, 35 1 W 2     10   59 666   APPLINER   0.01500   S 465   140 W 461, 35 1 W 2     10   59 666   APPLINER   0.01500   S 465   140 W 461, 35 1 W 2     10   59 666   APPLINER   0.01500   S 465   140 W 461, 35 1 W 4     10   59 666   APPLINER   0.01500   S 465   140 W 461, 35 1 W 4     10   59 666   APPLINER   0.01500   S 465   140 W 461, 35 1 W 4     10   59 666   APPLINER   0.01500   S 465   140 W 461, 35 1 W 4     10   59 666   APPLINER   0.01500   S 465   140 W 461, 35 1 W 4     10   59 666   APPLINER   0.01500   S 465   W 130   W 461, 13 1 W 4     10   59 1001   APPLINER   0.01500   S 450 W 130   W 461     10   59 1001   APPLINER   0.01500   S 450 W 130   W 461     10   59 1102   APPLINER   0.01500   S 450 W 120   W 461     10   59 1104   APPLINER   0.01500   N 130E   666 W 481, 35 1 W 4     10   59 1108   APPLINER   0.01500   N 130E   666 W 481, 35 1 W 4     10   59 1108   APPLINER   0.01500   N 130E   666 W 481, 35 1 W 4     10   59 1109   APPLINER   0.01500   N 130E   660 W 481, 35 1 W 3     10   59 1249   APPLINER   0.01500   N 130E   660 W 481, 35 W 3     10   59 1249   APPLINER   0.01500   N 130E   660 W 481, 35 W 3     10   59 1249   APPLINER   0.01500   N 130E   660 W 480   S W 3     10   59 1249   APPLINER   0.01500   N 130E   660 W 480   S W 3     10   59 1249   APPLINER   0.01500   N 130E   660 W 480   S W 3     10   59 1249   APPLINER   0.01500   N 130E   660 W 480   S W 3     10   59 1249   APPLINER   0.01500   N 130E   660 W 480   S W 3     10   59 1249   APPLINER   0.01500   N 130E   660    | 1.5   59   569   1.5     | 0.01500 S 101E 899 W4SL 35 1W21<br>0.01500 N 600E 90 W4SL 35 1W2<br>0.01500 N 220E 90 W4SL 35 1W5<br>0.01500 S 698E 1142 W4SL 35 1W5<br>0.01500 S 198E 75 NWSL 35 1W2<br>0.01500 S 1043E 140 NWSL 35 1W2<br>0.01500 S 119 W 168 N4SL 35 1W16<br>0.01500 N 625 W 110 S4SL 35 1W17<br>0.01500 N 625 W 110 S4SL 35 1W17<br>0.01500 N 1230 W 895 E4SL 35 1W17<br>0.01500 N 1230 W 895 E4SL 35 1W14<br>1.00000 S 698E 1142 W4SL 35 1W14<br>0.01500 S 70E 10 W4SL 35 1W3<br>0.01500 S 70E 10 W4SL 35 1W3<br>0.01500 S 592 W 163 NESL 35 1W3<br>0.01500 S 595 W 212 NESL 35 1W3<br>0.01500 S 585 W 212 NESL 35 1W3<br>0.01500 S 585 W 212 NESL 25 1W27<br>0.03200 N 110 E 1630 SWSL 35 1W 8  |
| 15   | D  | 0.01500 N 200 E 90 W45L 53 1W2 0.01500 N 200 W 1975 E4SL 35 1W15 0.01500 S 698 E 1142 W4SL 35 1W15 0.01500 S 1048 E 75 NWSL 3S 1W2 0.01500 S 1043 E 75 NWSL 3S 1W2 0.01500 S 1043 E 140 NWSL 3S 1W2 0.01500 N 625 W 110 S4SL 3S 1W11 0.01500 N 625 W 110 S4SL 3S 1W11 0.01500 N 1230 W 895 E4SL 3S 1W17 0.01500 N 1230 W 895 E4SL 3S 1W14 1.00000 S 698 E 1142 W4SL 3S 1W21 0.01500 S 70E 10 W31 0.01500 S 70E 10 W31 0.01500 S 592 W 163 NESL 3S 1W21 0.01500 S 592 W 163 NESL 3S 1W3 0.01500 S 595 W 212 NESL 3S 1W3 0.01500 S 595 W 212 NESL 3S 1W3 0.01500 S 595 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W 8  |
| S   59 588   APPLICRT   C01500   N   200 W   1975FE4SL   35   100   40   40   40   40   40   40   4  | S   59   50   50   50   50   50   50   50  | 0.01500 N 250 L 35 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| 59 689   APPLICERT   4,00000   5 698 E 1142 W4SL 35 1W2     59 684   APPLIDIS   0,01500   5 199 E 75 NWSL 35 1W2     59 664   APPLIDIS   0,01500   5 199 E 75 NWSL 35 1W2     59 664   APPLIDIS   0,01500   199 H 168 M4SL 35 1W2     59 664   APPLIDIS   0,01500   199 H 168 M4SL 35 1W2     59 664   APPLIDIS   0,01500   199 H 168 M4SL 35 1W3     59 980   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1007   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1007   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1007   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1007   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1007   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1112   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1112   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1102   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1102   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1102   APPLIDIS   0,01500   1020 W 895 E4SL 35 1W3     10 5 99 1102   APPLICERT   0,00300   10450   1060 W 895 E4SL 35 1W3     10 5 99 1102   APPLICERT   0,00300   10450   1060 W 895 E4SL 35 1W3     10 5 99 1102   APPLICERT   0,00300   1060   1060 W 895 W 125 W 13     10 5 91 1103   APPLICERT   0,00300   1060   1060 W 895 W 125 W 13     10 5 91 1103   APPLICERT   0,00300   1200 E 695 W 125 W 13     10 5 91 1103   APPLICERT   0,0000   1000   1200 W 125 W 13     10 5 91 1103   APPLICERT   0,0000   1200 W 120 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W 13     10 5 91 120   APPLICERT   0,0000   1200 W 120 W    | D 59 638<br>D 59 634<br>D 59 634<br>D 59 654<br>D 59 666<br>D 59 666<br>D 59 1007<br>D 59 1007<br>D 59 1007<br>D 59 1007<br>D 59 1007<br>D 59 1112<br>D 59 1146<br>D 59 1146<br>D 59 1148<br>C 59 1189<br>C 59 1189<br>C 59 1249<br>D 59 1249   | T. 4.00000 S. 698 E 1142 W4SL 3S 2W29 0.01500 S. 49E 75 NWSL 3S 1W 2 0.01500 S. 1043 E 140 NWSL 3S 1W 2 0.01500 S. 1043 E 140 NWSL 3S 1W 2 0.01500 N 625 W 110 S4SL 3S 1W11 0.01500 N 1200 W 895 E4SL 2S 1W27 0.01500 N 1230 W 895 E4SL 2S 1W27 0.01500 S 1235 E 1185 N4SL 3S 1W14 1.00000 S 698 E 1142 W4SL 3S 1W 3 0.01500 S 698 E 1142 W4SL 3S 1W 3 0.01500 S 698 E 142 W4SL 3S 1W 3 0.01500 S 698 W 163 NESL 3S 1W 3 0.01500 S 698 W 163 NESL 3S 1W 3 0.01500 S 698 W 163 NESL 3S 1W 3 0.01500 S 698 W 212 NESL 3S 1W 3 0.01500 S 698 W 212 NESL 3S 1W 3 0.01500 S 698 W 225 E4SL 2S 1W27 0.03200 N 412 E 35 SWSL 3S 1W 8  |
| D   59 638   APPLINR   0.01500   S 149E   75 NWSL 3S 1W2   | D  | 0.01500 S 49E 75 NWSL 3S 1W 2 0.01500 S 1043 E 140 NWSL 3S 1W 2 0.01500 S 109 W 168 N4SL 3S 1W 1 0.01500 N 625 W 110 S4SL 3S 1W11 0.01500 N 450 E 396 S4SL 2S 1W37 0.01500 N 1230 W 895 E4SL 3S 1W16 0.01500 S 1235 E 1185 N4SL 3S 1W14 1.00000 S 698 E 1142 N4SL 3S 1W14 1.00000 S 698 E 1142 N4SL 3S 1W3 0.01500 S 698 E 1142 N4SL 3S 1W3 0.01500 S 70 E 10 W4SL 3S 1W3 1.00000 N 412 E 35 SWSL 3S 1W3 0.01500 S 585 W 212 NESL 3S 1W3 0.01500 S 585 W 212 NESL 3S 1W3 0.01500 S 585 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W 8  |
| D   59 641   APPLINPE   0.01500   S   1043 E   140 NWSL 3S   1W2   59 664   APPLINPE   0.01500   S   104 W   68 MASL 3S   1W11   105   59 328   APPLINPE   0.01500   S   1000 E   105 NASL 3S   1W11   105   59 960   APPLINPE   0.01500   S   1000 E   105 NASL 3S   1W32   0.01500   S   1030 W   89 6 E4SL 3S   1W32   0.01500   S   1230 W   89 6 E4SL 3S   1W32   0.01500   S   1230 W   89 6 E4SL 3S   1W32   0.01500   S   1230 W   89 6 E4SL 3S   1W32   0.01500   S   1230 W   89 6 E4SL 3S   1W32   0.01500   S   1230 W   89 6 E4SL 3S   1W32   0.01500   S   1230 W   89 6 E4SL 3S   1W32   0.01500   S   1230 W   89 6 E4SL 3S   1W32   0.01500   S   1230 W   1630 W   1530 W   | D   59 641     D   59 641     D   59 666     DS   59 328     D   59 666     D   59 666     D   59 666     D   59 1007     D   59 112     D   59 1146     D   59 1146     D   59 1146     D   59 1146     D   59 1149     D   59 1249     D   50 1249     D   D   50 1249     D   D   D   D     D   D   D   D     D   D         | 0.01500 S 1043 E 140 NWSL 3S 1W2 0.01500 S 119 W 168 N4SL 3S 1W16 0.01500 N 625 W 110 S4SL 3S 1W11 0.01500 N 450 E 396 S4SL 2S 1W27 0.01500 N 1230 W 895 E4SL 3S 1W14 0.01500 S 1235 E 1185 N4SL 3S 1W14 1.00000 S 698 E 142 W4SL 3S 1W14 0.01500 S 70 E 10 W4SL 3S 1W3 0.01500 S 70 E 10 W4SL 3S 1W3 0.01500 S 592 W 163 NESL 3S 1W3 0.01500 S 70 E 10 W4SL 3S 1W3 0.01500 S 585 W 212 NESL 3S 1W3 0.01500 S 585 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W8  |
| 59 654   APPLDIS   0.01500   0.1900   119 W 168 NASL 3S 1W16   105 89 764   APPLDIS   0.01500   0.0200   0.0200   0.0200   0.1500   0.0200   0.0200   0.1500   0.02   | D 59 654 D 59 666 DS 59 328 O 59 328 O 59 328 O 59 3007 D O 59 1006 D O 59 1007 D O 59 1011 D O 59 116 D O 59 116 D O 59 116 D O 59 116 D O 59 1176 D O 59 1189 C 59 1189 D O 59 1249 D O  | 0.01500 S 119 W 168 N4SL 3S 1W16 0.01500 N 625 W 110 S4SL 3S 1W11 0.01500 N 450 E 396 S4SL 2S 1W32 0.01500 N 1230 W 895 E4SL 3S 1W46 0.01500 S 1235 E 1185 N4SL 3S 1W44 1.00000 S 698 E 1142 W4SL 3S 2W29 0.01500 S 698 E 1142 W4SL 3S 1W14 1.00000 N 412 E 35 SWSL 3S 1W3 0.01500 S 455 W 212 NESL 3S 1W3 0.01500 S 585 W 225 E4SL 2S 1W3 0.01500 S 585 W 225 E4SL 2S 1W27 0.03200 N 410 E 4630 SWSL 3S 1W3   |
| D   59 666   APPLINPR   0.01500   N 625 W 110 S4SL 35 1W11   | DS 59 666 DS 59 328 O 59 328 O 59 328 O 59 328 O 59 3007 DS 59 1007 DS 59 1007 DS 59 1007 DS 59 1007 O 59 1007 O 59 118 O 59 1249   | 0.01500   N 625 W 110 S4SL 3S 1W11   |
| IDS   59 764   APPLCRT   0.01500   S 1000 E 105 M4SL 3S 1W3Z   APPLCRT   0.10500   N 450E 398 648L 3S 1W16   APPLDR   0.01500   N 1450E 398 648L 3S 1W16   APPLDR   0.01500   S 1235 E 1185 M4SL 3S 1W16   APPLDR   0.01500   S 1235 E 1185 M4SL 3S 1W16   APPLDR   0.01500   S 1235 E 1185 M4SL 3S 1W16   APPLDR   0.01500   S 1235 E 1185 M4SL 3S 1W14   APPLDR   0.01500   S 1235 E 1185 M4SL 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 412 E 35 SW3L 3S 1W14   APPLCRT   0.00300   N 410 E 44 S4SL 3S 1W14   APPLCRT   0.00300   N 420 E 44 S4SL 3S 4W3   APPLCRT   0.00300   N 420 E 44 S4SL 3S 4W3   APPLCRT   0.0000   N 420 E 44 S4SL 3S 4   | DS   59 764     O   59 328     O   59 328     O   59 995     O   59 1006     D   O   59 1007     D   O   59 107     D   O   59 107     D   D   D   112     O   59 118     O   59 1249     O   50    | Course   C   |
| DS   328   APPLCERT   0.12600   N 450 E 396 S45L 25 1W27     S9 980   APPLDIS   0.01500   N 1230 W 895 E45L 33 1W14     D   S9 1006   APPLDPT   1.00000   S 698 E 1142 W45L 35 2W29     D   S9 1007   APPLNPR   0.01500   S 70 E 10 W45L 35 1W3     D   S9 1007   APPLCERT   2.00000   N 47E E 35 SW2L 35 1W3     D   S9 1112   APPLCERT   2.00000   N 47E E 35 SW2L 35 1W3     D   S9 1112   APPLCERT   2.00000   N 47E E 35 SW2L 35 1W3     D   S9 1114   APPLCERT   2.00000   N 47E E 35 SW2L 35 1W3     D   S9 1101   APPLCERT   0.03200   N 10E E430 SW3L 35 1W3     D   S9 1101   APPLCERT   0.00500   N 30E E 66 W45L 35 1W3     D   S9 1104   APPLCERT   0.00500   N 30E E 35 SW3L 35 1W3     D   S9 1109   APPLCERT   0.00500   N 10E E 291 S45L 35 1W3     D   S9 1249   APPLCERT   0.00500   N 10E E 291 S45L 35 2W33     D   S9 1249   APPLCERT   0.0000   N 100 E 200 SW5L 35 1W9     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 NW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 SW5L 35 2W3     D   S9 1249   APPLLAP   3.79300   S 1500 E 1400 SW5L 35 2W3     D   S9 1249   APPLLAP   3   | DS 59 328  1   | Continuo    |
| 10   | 1  | 0.01500   N 1230 W 895 E4SL 3S 1W16  |
| IDS   59 995   APPLINPR   0.01500   S 1235 E 1185 MSL 3S 1W74     O  | DS 59 995     O 59 1006     D O 59 1007     D O 59 1007     DS O 59 1011     DS O 59 1091     DS O 59 1112     DS D 59 1186     S D 1249     S D 1   | C 0.01500 S 1235 E 1185 N4SL 3S 1W14 1.00000 S 698 E 1142 W4SL 3S 2W29 0.01500 S 592 W 163 NESL 3S 1W3 1.001500 S 70 E 10 W4SL 3S 1W21 2.00000 N 412 E 35 SWSL 3S 1W14 0.08900 S 455 W 212 NESL 3S 1W3 0.01500 S 585 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W 8  |
| O 59 1006   APPLPDPT   1,00000   5 698 E 1142 W4SL 35 2W29     D 59 1007   APPLNPR   0,01500   5 592 W 180 NEL 3S 1W3     D 59 1011   APPLCERT   2,00000   N 42E E 35 SWSL 3S 1W3     D 59 1012   APPLCERT   2,00000   N 42E E 35 SWSL 3S 1W3     D 59 1112   APPLCERT   0,08900   25 56 W 22E 54SL 2S 1W27     D 59 1116   APPLCERT   0,03200   N 180 E 668 W4SL 3S 1W3     D 59 1116   APPLCERT   0,03200   N 180 E 680 W4SL 3S 1W3     S 59 1176   APPLCERT   0,00000   N 180 E 69 SWSL 3S 1W3     S 59 1180   APPLCERT   1,00000   N 180 E 64 SWSL 3S 1W3     S 59 1180   APPLCERT   1,00000   N 10E E 40 SWSL 3S 1W3     S 59 1249   APPLLAP   3,7930   S 1500 E 1400 NWSL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 W 450 NESL 3S 2W3     S 59 1249   APPLLAP   3,7930   S 1500 S 200 S   | O 59 1006     D O 59 1007     DS   | T 1.00000 S 698 E 1142 W4SL 3S 2W29 0.01500 S 592 W 163 NESL 3S 1W 3 0.01500 S 70 E 10 W4SL 3S 1W21 2.00000 N 412 E 35 SWSL 3S 1W14 0.08900 S 455 W 212 NESL 3S 1W 3 0.01500 S 585 W 225 E4SL 2S 1W27 0.03200 N 110 E 1630 SWSL 3S 1W 8  |
| D  | ID O 59 1007 IDS D 59 1011 ID O 59 1011 ID O 59 1011 ID D 59 1112 O 59 1116 ID D 59 1116 ID D 59 116 ID D 59 1176 ID D 59 118 ID D 59 1249  | T 2.00000 N 412 E 35 SWSL 3S 1W 3<br>T 2.00000 N 412 E 35 SWSL 3S 1W14<br>T 0.08900 S 455 W 212 NESL 3S 1W 3<br>0.01500 S 585 W 225 E4SL 2S 1W27<br>T 0.03200 N 110 E 1630 SWSL 3S 1W 8  |
| 105   59 1011   APPLINPR   0.01500   S 70 E 10 W4SL 3S 1W21     10   | IDS 59 1011  IDS O 59 1091  ID   | 0.01500 S 70 E 10 W4SL 3S 1W21<br>2.00000 N 412 E 35 SWSL 3S 1W14<br>0.08900 S 455 W 212 NESL 3S 1W 3<br>0.01500 S 585 W 225 E4SL 2S 1W27<br>0.03200 N 110 E 1630 SWSL 3S 1W 8   |
| 105 0 59 1078   APPLCERT   2.00000   N 412E   35 SWSL 35 1 W 4   | 59 1078   108 0 59 1078   108 0 59 1091   109 0 59 1112   109 0 59 1112   109 0 59 1116   109 0 59 1189   109 0 59 1249   109 0 59 1249   108 0 59 1249   10   | 2.00000 N 412 E 35 SWSL 3S 1W14<br>0.08900 S 455 W 212 NESL 3S 1W 3<br>0.01500 S 585 W 225 E4SL 2S 1W27<br>0.03200 N 110 E 1630 SWSL 3S 1W 8   |
| IDS O  | IDS O 59 1091  ID 59 1112  O 59 1116  I 59 1176  I 59 1176  I 59 1180  I 59 1188  C 59 1189  I 59 1249   | 0.08900 S 455 W 212 NESL 3S 1W 3<br>0.01500 S 585 W 225 E4SL 2S 1W27<br>0.03200 N 110 E 1630 SWSL 3S 1W 8  |
| D  | D  | 0.01500 S 365 W 225 E4SL 25 1WZ/<br>0.03200 N 110 E 1630 SWSL 35 1W 8  |
| APPLCERT C. 67000 N 110 E 1830 SWAL 35 1W 4 59 1176 APPLCERT C. 62000 N 35 E 35 SWSL 35 1W 4 59 1180 APPLCERT C. 62000 N 35 E 35 SWSL 35 1W 4 59 1180 APPLCERT C. 62000 N 1296 E 44 SASL 35 1W 1 1   | ATION  AT | 0.03200 N 110 E 1630 3W3L 33 1W 6  |
| APPLCERT 2.50000 N 35 E 35 SWS1 35 IW 9  | ATION  AT | TRANK OF ICENT COOK LANDOCCE OF  |
| ATION  APPLCERT  DS 59 1180  APPLCERT  C 69 1180  APPLCERT  C 69 1180  APPLCERT  C 79 300  C 1400 NWSL 3S 2W34  APPLCERT  C 69 1249  APPLCERT  C 79 300  C 1400 NWSL 3S 2W34  APPLCERT  C 14 0000  C 1400 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000  C 14 00 NWSL 3S 2W34  APPLCERT  C 14 0000   | ATION  AT | 0.50000 N 320 E 666 W45L 35 1W14   |
| ATION  AT | ATION  AT | Z.0Z000 IN 33 E 33 3W3L 33 IW 8  |
| RATION  C 59 1189 APPLCERT 1.8000 N 10 E 41 W45L 3S 2W26 59 1189 APPLCERT 2.46000 S 320 W 122 NESL 3S 1W3 1 5 91 1249 APPLLAP 3.79300 N 100 E 4100 NWSL 3S 2W34 59 1249 APPLLAP 3.79300 S 1500 W 1450 NSL 3S 2W34 1 59 1249 APPLLAP 3.79300 N 1000 E 2300 SWSL 3S 2W34 1 59 1249 APPLLAP 3.79300 S 1500 W 1450 NSL 3S 2W34 1 59 1249 APPLLAP 3.79300 S 1250 E 45L 3S 2W33 1 59 1249 APPLLAP 3.79300 S 1250 E 45L 3S 2W33 1 59 1249 APPLLAP 3.79300 S 1250 E 44 NWSL 4S 2W3 1 59 1249 APPLLAP 3.79300 S 740 E 1330 W45L 3S 2W34 1 59 1249 APPLLAP 3.79300 S 602 E 44 NWSL 4S 2W3 1 59 1249 APPLLAP 3.79300 S 50 E 45L 3S 2W33 1 59 1249 APPLLAP 3.79300 S 50 E 45L 3S 2W33 1 59 1249 APPLLAP 3.79300 N 1500 E 2400 SWSL 3S 2W34 2 1249 APPLLAP 3.79300 N 1500 E 2400 SWSL 3S 2W34 2 1249 APPLLAP 3.79300 N 1500 E 2400 SWSL 3S 2W34 2 1249 APPLLAP 3.79300 N 1500 E 2400 SWSL 3S 2W34 2 1249 APPLLAP 3.79300 N 1500 E 2400 SWSL 3S 2W34 2 1249 APPLLAP 3.79300 N 1500 E 2400 SWSL 3S 2W34 2 1249 APPLLAP 3.79300 N 1500 E 2400 SWSL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1240 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1240 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1240 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1240 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1240 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1240 APPLRAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1240 APPLRAP 3.79300 N 1711 W 1316 SESL 3S 2W34 2 1240 APPLRAP 3.79300 N 1711 W 1316 SESL 3 | RATION C 59 1188 C 59 1188 C 59 1188 C 59 1188 C 59 1189 C 59 1189 C 59 1249 | 1 00000 N 1296 E 23, 343L 33 2W33  |
| RATION  C 59 1189 APPLCERT 2.46000 S 320 W 122 NESL 3S 1W31 59 1249 APPLCERT 5.00000 N 110 E 41 W4SL 3S 1W 9 3.79300 N 2300 E 1500 SWSL 3S 2W33 4.79300 S 1500 W 1450 NSL 3S 2W34 59 1249 APPLLAP 3.79300 S 1500 W 1450 NSL 3S 2W34 59 1249 APPLLAP 3.79300 S 1500 W 1450 NSL 3S 2W34 1 59 1249 APPLLAP 3.79300 S 1500 W 1450 NSL 3S 2W33 1 S 1200 APPLLAP 3.79300 S 1500 W 1450 NSL 3S 2W33 1 S 1200 APPLLAP 3.79300 S 2600 W 1450 NSL 3S 2W33 1 S 1249 APPLLAP 3.79300 S 2600 W 1450 NSL 3S 2W33 1 S 1249 APPLLAP 3.79300 S 2600 W 1450 NSL 3S 2W33 1 S 1249 APPLLAP 3.79300 S 50 E 4SL 3S 2W33 1 S 1249 APPLLAP 3.79300 S 50 E 4SL 3S 2W33 1 S 1249 APPLLAP 3.79300 S 50 E 4SL 3S 2W33 1 S 1249 APPLLAP 3.79300 S 50 E 4SL 3S 2W33 1 S 1249 APPLLAP 3.79300 S 50 E 4SL 3S 2W33 1 S 1249 APPLLAP 3.79300 N 1500 E 2400 SWSL 3S 2W34 2 S 1249 APPLLAP 3.79300 N 1711 W 1316 SESL 3S 2W34 CO.  | RATION C 59 1189 1 59 1249 1 59 1249 1 59 1249 1 59 1249 1 59 1249 1 59 1249 1 59 1249 1 59 1249 1 59 1249 1 59 1249 1 59 1249   | T 118000 N 50 E 40 SWSL 3S 2W26  |
| 59 198   | 59 1198<br>  59 1249<br>  59 1249  | T 2.46000 S 320 W 122 NESL 3S 1W31   |
| 59 1249   APPLLAP   3.79300   N 2300 E 1500 SWSL 3S 2W34     59 1249   APPLLAP   3.79300   S 1500 E 1400 NWSL 3S 2W34     59 1249   APPLLAP   3.79300   S 1500 W 1450 NESL 3S 2W34     59 1249   APPLLAP   3.79300   S 1250 E 48L 3S 2W33     1  | NEY 1249 159 1249 169 169 169 169 169 169 169 169 169 16   | F 5.00000 N 110 E 41 W4SL 3S 1W 9  |
| 59 1249   APPILAP   3.79300   S 1500 E 1400 NWSL 3S 2W34     59 1249   APPILAP   3.79300   S 1500 W 1450 NESL 3S 2W34     59 1249   APPILAP   3.79300   S 1500 W 1450 NESL 3S 2W34     59 1249   APPILAP   3.79300   S 1250   E4SL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 4S 2W 3     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 4S 2W 3     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 45 NWSL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 45 NWSL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 45 NWSL 3S 2W33     59 1249   APPILAP   3.79300   N 1500 E 2000 SWSL 3S 2W33     59 1249   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 16   APPICERT   0.41000   N 1711 W 1316 SESL 3S 2W34     59 16   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 16   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAP   N 1711 W    | 59 1249<br>  58 1249<br>  59 1249<br>  59 1249<br>  59 1249<br>  59 1249<br>  59 1249<br>  59 1249   | 3.79300 N 2300 E 1500 SWSL 3S 2W33   |
| 59 1249   APPILAP   3.79300   S 1500 W 1450 NESL 3S 2W34     59 1249   APPILAP   3.79300   S 1250   E4SL 3S 2W34     59 1249   APPILAP   3.79300   S 1250   E4SL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 4S 2W 3     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 4S 2W 3     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 45 NS 2 NS 3     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 3S 2W33     59 1249   APPILAP   3.79300   S 662 E 44 NWSL 3S 2W33     59 1249   APPILAP   3.79300   N 1500 E 2000 SWSL 3S 2W33     59 1249   APPILAP   3.79300   N 1711 W 1316 SESL 3S 2W34     59 16   APPICERT   0.41000   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   4.5900   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   N 1711 W 1316 SESL 3S 2W34     59 17   APPILAPD   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAPD   N 1711 W 1316 SESL 3S 2W34     50 17   APPILAPD   N 1711 W 1711   | 59 1249<br>  59 1249<br>  59 1249<br>  1 59 1240<br>  1 59 1249<br>  1 59 1249<br>  1 59 1249<br>  1 59 1249   | 3.79300 S 1500 E 1400 NWSL 3S 2W34   |
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| E.M.   | JESSE ROUNEY JOYCE M. JOSE E. JESSE  | 3.78300 S (230 E43E 33 2W33 - 4 49000 S 740 E 1330 W4SI 3S 2W33  |
| ELINE & DEVELOPMENT CO. (HELD BY BWR)  1 59 170 170 170 170 170 170 170 170 170 170  | JESSE 1249<br>JESSE 1249<br>JESSE 1249<br>JESSE 1249   | 0.43700 S 662 F 44 NWSL 4S 2W 3  |
| 1 59 1249   APPLLAP   3.79300 S 950 E 1050 E4SL 3S 2W33     1 59 1249   APPLLAP   3.79300 S 950 E 1050 E4SL 3S 2W33     1 59 1249   APPLLAP   3.79300 N 1500 E 2000 SWSL 3S 2W33     1 59 1249   APPLLAP   3.79300 N 1500 E 2400 SWSL 3S 2W33     1 59 1249   APPLLAP   3.79300 N 1900 E 2400 SWSL 3S 2W34     1 59 16   APPLCERT   0.41000 N 1711 W 1316 SESL 3S 2W34     1 59 16   APPLCERT   0.41000 N 1711 W 1316 SESL 3S 2W34     1 59 16   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 16   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 59 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5000 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5000 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5000 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5000 N 1711 W 1316 SESL 3S 2W34     1 50 1249   APPLLAPD   4.5000 N 1711 W    | JESSE 59 1249<br>JESSE 1249<br>JESSE 1249  | 3 79300 S 2600 W 1450 NESL 3S 2W34   |
| 59 1249   APPLLAP   3.79300 S 50 E4SL 3S 2W33     59 1249   APPLLAP   3.79300 N 1500 E 2000 SWSL 3S 2W33     59 1249   APPLLAP   3.79300 S 950 E4SL 3S 2W33     59 1249   APPLLAP   3.79300 N 1900 E 2400 SWSL 3S 2W34     59 16   APPLCERT   0.41000 N 1711 W 1316 SESL 3S 2W34     59 17   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     59 17   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     69 17   APPLLAPD   4.5900 N 1711 W 1316 SESL 3S 2W34     71   | JESSE 1249   | 3.79300 S 950 E 1050 E4SL 3S 2W33  |
| 59 1249   APPLLAP   3.79300   N 1500 E 2000 SWSL 3S 2W33   159 1249   APPLLAP   3.79300   S 950   E4SL 3S 2W33   159 1249   APPLLAP   3.79300   N 1900 E 2400 SWSL 3S 2W34   159 16   APPLCERT   0.41000   N 1711 W 1316 SESL 3S 2W34   159 16   APPLCERT   0.41000   N 1711 W 1316 SESL 3S 2W34   159 17   APPLLAPD   4.5900   N 1711 W 1316 SESL 3S 2W34   159 17   APPLLAPD   4.5900   N 1711 W 1316 SESL 3S 2W34   150 171 W 1316 SE   | 1001   | 3.79300 S 50 E4SL 3S 2W33  |
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| 59 1249   APPLLAP 3.79300 N 1900 E 2400 SWSL 3S 2W34   59 16   APPLCERT 0.41000 N 1711 W 1316 SESL 3S 2W34   GAITON CO. (HELD BY BWR)   59 17   APPLLAPD 4.59000 N 1711 W 1316 SESL 3S 2W34   GAITON CO.   | 1 59 1249  | 3.79300 S 950 E4SL 3S 2W33   |
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| 2020 W 100 SESL<br>1687 W 200 S4SL<br>371 W 147 N4SL<br>431 E 29 NWSL<br>715 W 161 N4SL<br>2531 E 1083 NWSL<br>353 E 666 NWSL<br>W 100 E4SL 3S<br>500 E 2050 SWSL<br>635 E 145 SWSL  |   |  | 2347 E 1149 NWSL 635 E 145 W4SL 3410 W 202 N4SL 100 SWSL 35 1276 E 168 S4SL 3136 W 256 N4SL 150 E 2500 NWSL 150 E 2500 NWSL 166 E 2499 W4SL 166 E 2499 W4SL 166 E 2499 W4SL 360 E 100 W4SL 166 E 2499 W4SL 360 E 100 W4SL 166 E 2499 W4SL 360 E 100 W4SL 360 E 100 W4SL 360 E 2499 W4SL 360 E 2490 W4SL 360 E 2490 W4SL 360 E 240 E | >> 101 101 101 >  |
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| HERRIMAN PIPELINE & DEVELOPMENT CO. (HELD BY BWR) QUILTER, JAMES O. & VIRGINIA A. KENNECOTT UTAH COPPER CORPORATION BROWN, DARREL H. BROWLS, ROBERT I. BOWLES, ROBERT I. WEST JORDAN, CITY OF WEST JORDAN, CITY OF BOOTH, WILLIAM H. | G.<br>RPORATION<br>COURSE INC<br>COURSE INC.<br>COURSE INC.                   | AND JOYCE G  | KENNECOTT UTAH COPPER CORPORATION  DUTSON, BERNARD W. BRIGHT, CHARLES W. JONES BROTHERS JONES BROTHERS JONEON STANLEY G. GILBERT, DONALD R. & SUSAN J. RIVERTON CITY MCCARTHY, CURTIS L. & CHARICE MCCARTHY, CURTIS L. & CHARICE KENNECOTT UTAH COPPER CORPORATION CHARLES, L. (JR.) LDS CHURCH, CORPORATION ALLISON, CHARLES, L. (JR.) LDS CHURCH, CORPORATION ALLISON, CHARLES, L. (JR.) LDS CHURCH, CORPORATION ALLISON, CHARLES, L. (JR.) LDS CHURCH, CORPORATION OF THE PRESIDING BISHOP HADMAN MALIDICE M.  | HAROLD W. DEAN DEAN   |

|  |                           | _   |                  |                |           |            |                   |               |                           |                 |                   |                    |             |               |                |                                   |                   |               |                   |                    |                         |                      |               |                          |                                  |  |                                      |          |                             |            |           |                  |                |                |   |                |   |                 |   |                 |          |          |                                  |           |                   |          |                |                   |                   |                  |                 |                          | _                 |                 | _             |                |                |
|--|---------------------------|---|------------------|----------------|-----------|------------|-------------------|---------------|---------------------------|-----------------|-------------------|--------------------|-------------|---------------|----------------|-----------------------------------|-------------------|---------------|-------------------|--------------------|-------------------------|----------------------|---------------|--------------------------|----------------------------------|--|--------------------------------------|----------|-----------------------------|------------|-----------|------------------|----------------|----------------|---|----------------|---|-----------------|---|-----------------|----------|----------|----------------------------------|-----------|-------------------|----------|----------------|-------------------|-------------------|------------------|-----------------|--------------------------|-------------------|-----------------|---------------|----------------|----------------|
|  |                           |   |                  |                |           |            |                   |               |                           |                 |                   |                    |             |               |                |                                   |                   |               |                   |                    |                         |                      |               |                          |                                  |  |                                      |          |                             |            |           | -                | -              |                |   |                |   |                 |   |                 |          |          |                                  |           |                   |          |                |                   |                   |                  |                 |                          |                   |                 |               |                |                |
|  | ກິດ                       | ນ ດ                                       | 59               | 59             | 59        | 59         | 59                | 29            | 29                        | 29              | 29                | 29                 | 29          | 29            | 29             | 59                                | 29                | 29            | 29                | 29                 | 29                      | 29                   | 29            | 59                       | 29                               | 2 2  | n (                                  | n (      | 20 1                        | 29         | 29        | 29               | 29             | 59             | 29                                      | 29             | 29  | 59              | 5.5                                       | 20              | 20       | 3 6      | 3 6                              | 3 6       | 20                | 59       | 29             | 29                | 29                | 29               | 26              | 29                       | 29                | 29              | 29            | 29             | 29             |
|  | -                         | ZW35                                      |                  |                | 2W35      | 1W 5       | 1W17              | 1W 4          | 1W 9                      | 3S 2W24         |                   |                    |             |               |                |                                   |                   |               | 2W 4              |                    |                         |                      |               |                          | 1W16                             |  |                                      | 33 1029  | 1W29                        | 3S 2W33    | 3S 2W34   | 2W33             | 3S 2W34        | 3S 2W34        | /33                                     | V33            | 3S 2W33   | 3S 2W33         | 3S 2W34                                   | 2W33            | 5 2/433  | 35 20034 | 3S 2W34                          | 33        | 3S 2W34           | 2W33     | 3S 2W34        | 2W33              | 1450 NESL 3S 2W34 | 3S 2W34          | W33             | 2W33                     | 3S 1W20           | 2W34            | 3S 1W29       | 3 1W20         | 1W20           |
|  | לא לא<br>מילים            | 25 15 15 15 15 15 15 15 15 15 15 15 15 15 | 151 35<br>151 35 | Š              | ñ         |            |                   |               |                           |                 |                   |                    | ٠.          |               |                |                                   | 34SL 3S           |               | ESL 4S            |                    |                         |                      |               |                          |                                  |  |                                      |          | ~                           |            | JEST 3    | 1SL 3S           |                |                | E4SL 3S 2W33                            | F4SI 3S 2W33   |   |                 | _   |                 |          |          |                                  | ς.        |                   |          |                | 1SL 3S            | VESL 3            | WSL 3            | 38 2            | 875 SESL 3S 2W33         | VESL 3            | 27 S4SL 3S 2W34 | 14SL 35       |                | 4SL 3S         |
|  | 0                         | SOU SWSE                                  | 165 W4SI         | 805 S4         | 1397 W4SL | 226 N4SL   | 420 SESI          | 552 NWSL      | 1260 S4SL                 | 75 SWSL         | _                 |                    | æ           |               |                | •                                 |                   | 766 NESL      | 537 NESL          | 551 SESL           | 202 S4SL                | 1425 S4SL            | 100 SESI      | 900 SESL                 | 685 NWSI                         | 200  | 342 040                              | SA CAST  | Z14 545L                    | 1500 SWSL  | 1450 NESL |                  | 2400 SWSL      |                | E4SL                                    | F4S            | *   |                 | 2300 SWSI                                 | F4SI 3S         | ~        |          |                                  |           |                   |          | <del>,</del> - | 1050 E4SL 3S 2W33 |                   |                  | E4S             | 875 SE                   |                   | 27 S4           | 1406 N4SL     | 1513 SWSL      | 130 S4SL       |
| 7  | 300 1                     |   |                  |                |           | 921 W      | 204 W             | 880 E         | 09 W                      | 75 E            | 330 €             | 1160 W             | 800 E       | 2045 W        | 279 W          | 418 W                             | 1300 W            | 200 W         | 105 W             | 343 W              | 965 W                   | 263 E                | 100 W         | 335 W                    | 125 E                            | 3 5  | N 107                                | 340 E    | V 23 W                      | 2300 E     | 1500 W    | 950 E            | 1900 E         | 1500 E         | 20                                      | 950            | 2300 E  | 1500 F          | 1000                                      | 1250            | 1500 F   | 1500 L   | 2600 1                           | 5002      | 1900 F            | 950      | 1500 E         | 950 E             | 2600 W            | 1000 E           | 1250            | 70 W                     | 3220 W            | 1096 E          | 173 W         | 493 E          | 1315 E         |
|  | n 2                       |   | 5005             |                |           |            | _                 |               | _                         | _               |                   |                    |             |               |                | z                                 | z                 |               | 200 N             | 200 N              |                         | _                    | 200 N         | _                        |                                  | _  |                                      | _        | _                           | _          | S 00085   | 300 S            | N 00085        | Ś              | (C)                                     | _              | Z   | . z             |   |                 | _        |          | _                                |           |                   |          |                |                   | S 000             |                  | S 000           |                          |                   |                 |               |                | 0.01500 N      |
|  | 2.00000                   | 3,0000                                    | 0.01500          | 0.01500        | 0.61000   | 0.01500    | 0.01500           | 0.04500       | 4.00000                   | 3.0000          | Ö,                | 0.01500            | 0.01500     | ō             | 0.01500        | 0.01500                           | 0.50000           | 0.01500       | 0.01500           | 0.01500            | 0.01500                 | 0.01500              | 0.01500       | 0.50000                  | 0.06700                          | 9 6  | 0.01500                              | 0.01500  | 0.01500                     | 6.37300    | 2.58      | 6.37300          | 2.58           | 6.37300        | 6 37300                                 | 2 58000        | 2 58000   | 200             | 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, | 6 37300         | 6 37300  | 6.37300  | 6.37300                          | 2 58000   | 6.37300           | 6.37300  | 2.58           | 2.58              | 2.58000           | 6.37300          | 2.58000         | 0.01500                  | 0.0               | 0.01500         | 0.01500       | 0.0            | 0.01           |
|  |                           |   |                  |                |           |            |                   |               |                           |                 |                   |                    |             |               |                |                                   |                   |               |                   |                    |                         |                      | _             | _                        |                                  |  | _                                    |          |                             |            |           |                  |                |                |   |                |   |                 |   |                 | -        |          |                                  |           |                   |          |                |                   |                   |                  |                 | _                        | _                 |                 |               |                |                |
|  | APPLONAP                  | APPLUNAP<br>APPLUNAP                      | APPLIAPD         | APPLCERT       | APPLCERT  | APPLCERT   | APPLCERT          | APPLCERT      | APPLLAPD                  | APPLLAPD        | APPLCERT          | APPLLAPD           | APPLLAPD    | newc          | APPLCERT       | APPLLAP                           | APPLLAPD          | APPLLAPD      | APPLCERT          | APPLCERT           | <b>APPLCER1</b>         | APPLCERT             | APPLLAPD      | APPLLAPD                 | APPLI APD                        |  | APPLOERI                             | APPLOERI | APPLCER                     | APPLAPP    | APPLLAP   | APPLAPP          | APPLLAP        | APPLAPP        | APPI APP                                | APPI I AP      | APPI I AP   | APP! AP         | APPI AP                                   | APPI APP        |          |          |                                  |           | APPI APP          | APPLAPP  | APPLLAP        | APPLLAP           | APPLLAP           | APPLAPP          | APPLLAP         | APPLCERT                 | APPLLAPD          | APPLCERI        | APPLCERT      | APPLCERT       | APPLLAPD       |
|  | \ \ \ \                   | \ <u>\</u>                                | A                | A              |           | API        | API               |               | -                         |                 |                   | ¥.                 | AP          |               |                | A i                               | ¥.                | AP            | API               |                    |                         | AP                   | AP            | AP                       | _                                |  | ¥ .                                  | ¥ .      | A .                         | <u>A</u>   | AP        | AP               | API            | AP             | AP                                      | ΔÞ             |   | _               | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \     | 4               | ( <      | \ \ \    | \ \ \                            | 4         | -                 | -        |                |                   |                   |                  |                 |                          |                   |                 |               |                | Ì              |
| 7000   | 29 5397                   | 59 3404                                   | 59 3452          | 59 3565        | 59 1156   | 59 1551    | 59 3597           | 59 3600       | 59 1626                   | 59 1614         | 59 3608           | 59 3619            | 59 3621     | 59 3643       | 59 3648        | 59 3825                           | 59 3811           | 59 3814       | 59 3813           | 59 3816            | 59 3817                 | 59 3826              | 59 3839       | 59 3842                  | 59 3844                          | 10000                                      | 59 3845                              | 29 3809  | 59 38/1                     | 59 1249    | 59 46 19  | 59 1249          | 59 4619        | 59 1249        | 59 1249                                 | 59 46 19       | 59 4619   | 50 4610         | 50 4610                                   | 50 1040         | 50 1249  | 50 1249  | 50 1240                          | 59 1245   | 59 40 19          | 59 1249  | 59 4619        | 59 46 19          | 59 4619           | 59 1249          | 59 4619         | 59 3885                  | 59 3937           | 59 3940         | 59 3941       | 59 3950        | 59 3948        |
| <u> </u>   |                           |   |                  |                |           |            |                   |               |                           |                 |                   |                    |             |               |                |                                   |                   |               |                   |                    |                         |                      |               |                          |                                  |  |                                      |          |                             |            |           |                  |                |                |   |                |   |                 |   | _               | _        |          |                                  |           |                   |          |                |                   |                   |                  |                 |                          |                   | _               |               | _              | —              |
|  |                           | c   | )                |                |           |            |                   |               |                           |                 |                   |                    |             |               |                |                                   |                   |               |                   |                    |                         |                      | 0             |                          |                                  |  |                                      |          |                             |            |           |                  |                |                |   |                |   |                 |   |                 |          |          |                                  |           |                   |          |                |                   |                   |                  |                 |                          |                   |                 |               |                |                |
|  | 2 _                       | <u></u>                                   |                  | IDS            | _         | ٥          | IDS               | SOI           |                           |                 | s<br>-            | S                  | S           | SQI           | S              | SQI                               | _                 |               | SQI               | SQI                | SQI                     | IDS                  | о<br><u>п</u> | IDS                      | )<br>!                           | ŭ  | 2 2                                  | 2 0      | S                           |            | <u>_</u>  |                  | ۵              |                |   |                | ) ⊆   | 3 5             | <u> </u>                                  | <u> </u>        |          |          |                                  |           | <u> </u>          |          | Q              | ₽                 | <u>_</u>          | 1                | Ω               | SO                       | )<br>!            | SOI             | ٥             | SQI            |                |
|  | 2 _                       |   |                  | SQI            | _         | ٥          | SQI               | IDS           |                           |                 | <u>S</u>          | S                  | S           | SQI           | S              | SQI                               |                   | _             | SQI               | SQI                | SOI                     | IDS                  |               | IDS                      | 1                                | 90   | 2 5                                  | <u> </u> | S                           |            | <u>_</u>  |                  | Ω              | !              |   |                | 9 ⊆   | <u> </u>        | <u> </u>                                  | <u> </u>        |          |          |                                  | <u></u>   | <u> </u>          |          | Q              | ₽                 | <u></u>           | 1                | ₽               | SOI                      | <u>!</u>          | SQI             | <u></u>       | SQI            |                |
|  | 2                         |   |                  | SOI            | _         | Ω          | SQI               | SGI           |                           | ,               | <u>o</u>          | S                  | <u>o</u>    | SQI           | S              | SQI                               | _                 | _             | SQI               | SQI                | SOI                     | SQI                  |               | SOI                      |                                  | ŭ  | SO                                   | SO       | SOI                         |            | <u>Q</u>  |                  | ٩              |                |   |                | . ⊆   | <u> </u>        | <u> </u>                                  | <u>.</u>        |          |          |                                  |           | <u> </u>          |          | QI             | <u></u>           | <u>Q</u>          | !                | Ω               | SQ.                      |                   | SOI             | <u> </u>      | SOI            |                |
|  | 201                       |   |                  | SOI            | _         | Ω          | SOI               | SOI           |                           |                 | <u>S - :</u>      | S                  | <u>S</u>    | SQI           | <u>o</u>       | SQI                               |                   |               | SQI               | SQI                | SOI                     | SOI                  |               | SOI                      |                                  | 00   | SOL                                  | SCI      | SCI                         |            | <u>Q</u>  |                  | Ω              |                |   |                | <u> </u>  | 9 ⊆             | <u> </u>                                  | <u>.</u>        |          |          |                                  | ٢         | 2                 |          | Q              | <u></u>           | <u></u>           | <b>!</b>         | <u>Q</u>        | SOI                      |                   | SCI             |               | SQI            |                |
|  | <u>80</u>                 |   |                  | SOI            | _         | Ω          | SOI               | SOI           |                           |                 | <u>S</u>          | <b>S</b>           | S           | SQI           |                |                                   |                   |               | SOI               | SQI                | SOI                     | SOI                  |               | SOI                      |                                  | · ·  |                                      | 500      | SCI                         | -          | <u>QI</u> |                  | <u> </u>       |                |   |                | 9 ⊆   | 9 ⊆             | <u> </u>                                  | <u> </u>        |          |          |                                  | <u>c</u>  | 2                 |          | Q              | <u>_</u>          | <u> </u>          |                  | Ω               | SOI                      |                   | SCI             | <u> </u>      | SCI            |                |
|  | 201                       |   |                  | SOI            | _         | <u>Q</u>   | SOI               | SOI           |                           |                 | <u> </u>          | S .                | <u>o</u>    | SQI           |                |                                   |                   |               | SQI               | SQI                | SQI                     | SOI                  |               | SOI                      |                                  | · ·  |                                      |          |                             |            | Ω         |                  |                |                |   |                | <u> </u>  | 9 ⊆             | 5 ⊆                                       | <u> </u>        |          |          |                                  | <u> </u>  | 2                 |          | Q              | <u></u>           | <u></u>           |                  | Ω               |                          |                   | SOI             | 20            | SOI            |                |
|  | SOL                       | _ ⊆                                       |                  | SOI            |           |            | SQI               |               | ETAL)                     |                 | <u>s</u>          | <u>S</u>           | <b>S</b>    | SQI           |                |                                   |                   |               | SQI               | SOI                | -                       |                      |               |                          |                                  | · ·  |                                      |          |                             |            | <u>a</u>  |                  | Ω.             |                |   |                | 2 ⊆   | 9 ⊆             | <u>5</u> ⊆                                | <u>5</u>        |          |          |                                  |           | ā                 |          | Ω              | <u> </u>          | <u> </u>          |                  | Ω               |                          |                   | SOI             |               | SCI            |                |
|  | NAME W                    | _ ⊆                                       |                  |                |           |            |                   |               | CE M. (ETAL)              |                 |                   | -                  | <i>∞</i> :  |               |                |                                   | <u> </u>          |               |                   |                    | -                       |                      |               |                          |                                  | ·  |                                      |          |                             |            | <u>Q</u>  |                  | <u> </u>       |                |   | <u>⊆</u>       | <u>:</u>  | <u> </u>        | <u> </u>                                  | <u></u>         |          |          | <del></del>                      | <u> </u>  | <u>-</u>          |          |                | <u> </u>          | Ω.                | ٠                |                 |                          |                   |                 |               |                |                |
|  | N BACO.                   | _ ⊆                                       |                  |                |           |            |                   |               | MAURICE M. (ETAL)         |                 |                   | AFTON L.           |             |               |                |                                   | HENRY F.          |               |                   |                    | -                       |                      |               |                          |                                  | ·  |                                      |          |                             |            | Ĭ         | ESSE H.          |                |                | 1 u u u u u u u u u u u u u u u u u u u | i              | i   |                 | i o                                       |                 | ת הסטה ב |          | ָר װַטְּטְּרוּ<br>בּ ווּסְטָּרוּ |           |                   | I 1000 T | ini            |                   |                   | ٠                |                 |                          |                   |                 |               |                |                |
| SOUR DOOR OF THE SOUR PROPERTY | TEROON BROS.              | _ ⊆                                       |                  |                |           |            |                   |               | RMAN, MAURICE M. (ETAL)   |                 |                   | AFTON L.           |             |               |                |                                   | HMIDT, HENRY F.   |               |                   |                    | -                       |                      |               |                          |                                  | ·  |                                      |          |                             |            | JESSE H.  | NSIE, JESSE H.   | JESSE H.       | H HSSEL        | _                                       | E COURT        | E 200 |                 |   | TENET II        | _        | _        | _                                | JENSE II. | FROM H            |          | LESSE H        | JESSE H.          |                   | ٠                |                 |                          |                   |                 |               |                |                |
| Social So |                           | _ ⊆                                       |                  | DEAN           | TI.       | & GAYLE P. | - A               |               | HARMAN, MAURICE M. (ETAL) |                 |                   | AFTON L.           |             |               |                | M. AND NANETTE D.                 | SCHMIDT, HENRY F. |               | ERICKSEN, KEITH A | SIMPSON, ROBERT L. | 3 & BEA                 |                      |               |                          | AD (JR)                          | ·  | T. AND BRENDA A.                     |          | W. & MUANA C.               | , JESSE H. | Ĭ         | DANSIE, JESSE H. |                | H HSSEL        | _                                       | ECOURT I       | E 200 |                 | - להסטה ב                                 | TENET II        | _        |          | _                                |           | FROM H            |          | JESSE H        | JESSE H.          | JESSE H.          |                  |                 | AND BOXANNES             |                   |                 |               |                |                |
|  | 1900V 13 TELETANOVI BAOS. | BUISHTON DONAID                           | HUG. JON J.      | WELLS, D. DEAN |           |            | JESSEE, NORMAN P. | HOPES, ROBERT |                           | FREEMAN, ALONZO | BURTON, MILLAN G. | YARBERRY, AFTON L. | PEINE, FRED | TODD, MAURINE | GASSER, ROBERT | BUNKER, RUSSELL M. AND NANETTE D. |                   | HALL, JACK W. |                   |                    | RASMUSSEN, TRAVIS & BEA | IVIE, JIM D. & WANDA |               | TOLBERT, CLINTON BERNELL | FIFE RICHARD A AND NORMA D (JR.) | א אמיימים מיאא ני מים מכא חילון מחילואום מ | BRINKERHOFF, MORKIN H. AND BRENDA A. |          | OAKESON, GLEN W. & MOANA C. |            | JESSE H.  |                  | DANSIE JESSE H | DANSIE JESSE H | DANSIE                                  | DANSIE IESSE H | DANGE ERSE H  | DANSIE IERRE II | DANGE, SEGGE T.                           | DANGE, GEOGETT. | DANOIE,  | DANSIE,  | DANVIE,                          | JENSE II. | DANOIC, JESSE II. | DANSIE,  | DANSIE JESSE H | DANSIE, JESSE H.  | DANSIE, JESSE H.  | DANSIE, JESSE H. | 7 DANSIE JESSEH | HANSEN PAUL AND ROXANNES | JORGENSEN DAVID B | CHIVERS MELANIE | CANDALOT GENE | HOGGE I NORMAN | MIELKE, DWIGHT |

|  | 29   | <u>გ</u>                      | ກີດ                  | 2 2                      | 22               | 29               | 29                | 29                                | ກິດ                       | 29                           | 20                           | 29                       | 29                  | 29                            | 29                             | 23                         | 23                           | 20 0                | 200                        | 2 2  | 20 0       | 2 2          | 2 6                                 | 2 0                    | 3 6                     | 200              | 29            | 29             | 59                                 | 20            | 29             | 29                        | 29             | 29             | 26               | 29              | ရှိ မ              | 20 0                                   | 2 6                | 200            | 29               | 26                  | 29                  | 29                  | 23            | 20                 | 200           | 2 3                             | 20 2                 | 20                | 29                | 29                         |
|--|--|-------------------------------|----------------------|--------------------------|------------------|------------------|-------------------|-----------------------------------|---------------------------|------------------------------|------------------------------|--------------------------|---------------------|-------------------------------|--------------------------------|----------------------------|------------------------------|---------------------|----------------------------|--|------------|--------------|-------------------------------------|------------------------|-------------------------|------------------|---------------|----------------|------------------------------------|---------------|----------------|---------------------------|----------------|----------------|------------------|-----------------|--------------------|--|--------------------|----------------|------------------|---------------------|---------------------|---------------------|---------------|--------------------|---------------|---------------------------------|----------------------|-------------------|-------------------|----------------------------|
|  | ¥.   | # Z                           | 74<br>V V V          | W20                      | 1W20             | 1W33             | /32               | , ZO                              | 10020                     |                              |                              | /32                      | 1W20                | 1W29                          | 1W 4                           | V34<br>5.                  | 34                           | 1W20                | 1020                       | 11112  | 0 5        | 2 475        | 2VV32                               | 111/14                 | <u>.</u> 6              | 1W30             | 1W30          | 1W29           | 1W29                               | 32            | 1W29           | 1W31                      | 1W 5           | 1W 5           | 33               | 62 5            | 6<br>8             | 2 5                                    | 11//20             | 9 9            | 1W16             | 20                  | 1W27                | 1W10                | 1W 4          | 62 :               | 1W11          | 1,001                           | 1W34                 | 1W16              | 8 !               | 1                          |
|  | 3 1W34                                       | 2S 1W34                       | 3 V                  | 3S 1W20                  | 3S 1≥            |                  | 3S 1W32           | 3S 1W20                           | 30 TWZ                    |                              | 3S 1W 7                      | S 1                      | 35 1                |                               | 38 10                          | 3S 2W34                    | 3S 2W34                      |                     | 35 T                       |  | 20 WE      | 7 00         | 200                                 |                        | , ~                     |                  |               |                |                                    |               | ′^             |                           |                |                | . 4              |                 |                    |  | 35 11/1/20         | . `            | 'n               | -                   |                     |                     |               | •                  |               | ``                              |                      |                   |                   | 3S 1W17                    |
|  | SE 2S  |                               |                      | WSI S                    | 34SL             |                  |                   |                                   |                           | (7)                          |                              | 4SL 3                    | WSL                 |                               |                                | ٠. ١                       | .,                           |                     |                            |  |            |              | ָּהְלָּהְ<br>הַיִּהְיִהְ<br>הַיִּהְ |                        | نی آ                    | ٠,               |               |                |                                    | . ` ′         | ر_ '           |                           |                |                | • •              |                 |                    |  |                    |                | ٠.               |                     |                     | - 1                 | ٠, ١          | -                  |               |                                 | ٠                    |                   |                   |                            |
|  | 39 S4SL                                      | 39 S4SL                       | 3550                 | 1180 SWSI                | 1190 S4SL        | 520 S4SL         | 204 N4SL          | 786 SWSL                          | 7 80 SWSL<br>346 M// SI   | N4S                          | 2500 W4SL                    | 785 N4SL 3S 1W32         | 1089 SWSL           | 156 N4SL                      | JSWN 796                       | 350 SESL                   | 27 S4SL                      | 264 S4SL            | 100 NASE                   | 190 N4SL   | EDE NIME   | 223 INVASE A | 22 IN EST                           | 1190 WASI              | 355 N4SI                | 699 N4SL         | 669 N4SL      | 145 S4SL       | 180 S4SL                           | 795 N4SL      | 1021 S4SL      | 163 NESL                  | 1127 E4SL      | 1100 E4SL      | 420 S4SL         | 130 S4SL        | 1609 S4SL          | 1292 N4SL                              | 307 N43L           | 14 W4SL        | 1413 W4SL        | 220 S4SL            | 1980 E4SI           | 2361 W4SL           | 143 E4SI      | 642 S4SL           | 163 W4SL      | 103 W43L<br>47 SWSI             | 4/ 3003L<br>664 NESL | 429 W4SL          | 300 SESL          | 420 SESL                   |
|  | 636 E  | 636 E                         | 3220 K               | 1785 E                   |                  | 1000 W           | 854 W             |                                   | 2/0 E                     |                              | E 250                        |                          | 875 E 1             | -                             | 100 E                          | 720 W                      | 1096 E                       | A / Z [ ]           | -                          | 700 E 4  |            | -            |                                     |                        |                         | _                | 332 W         | 438 W          | 507 W                              |               |                |                           |                | 200 W          |                  | _               | ш                  | 180 E 1                                |                    |                | ш                |                     | _                   | 503 E 2             | 048 W         | 1893 E             | 137 E         | 113/E                           | 180 W                | 1020 E            | 810 W             | 204 W                      |
|  | z:   | Z 2                           | z v                  | Z                        | z                | z                | S                 | <b>Z</b> 2                        | zυ                        | တ်                           | 1                            | တ                        |                     | S                             | တ :                            | <b>z</b> :                 | z 2                          | <u>z</u>            | z <i>u</i>                 |  |            | - 7          | -                                   |                        |                         |                  |               | z              | z                                  |               | `              | S 12                      |                | Z<br>Z         | _                |                 |                    | 2 0                                    | 0 W                |                |                  |                     | 양<br>고              |                     | z :           | z                  |               | n z                             |                      | ν                 |                   | Z<br>Z                     |
|  | 0.10000                                      | 0.10000                       | 0.1000               | 0.01500                  | 0.01500          | 0.01500          | 0.01500           | 0.01500                           | 0.01200                   | 5.17000                      | 5.17000                      | 0.01500                  | 0.01500             | 0.01500                       | 0.04500                        | 0.01500                    | 0.01500                      | 0.01500             | 0.01500                    | 0.01300  | 0.04500    | 0.01500      | 0.01300                             | 0.02500                | 0.01500                 | 0.01500          | 0.01500       | 0.01500        | 0.01500                            | 0.01500       | 0.01500        | 0.01500                   | 0.04300        | 0.05700        | 0.01500          | 0.01500         | 0.01500            | 0.01500                                | 0.01500            | 0.06000        | 0.02500          | 0.01500             | 0.01500             | 0.02200             | 0.10000       | 0.01500            | 0.20500       | 0.23300                         | 0.22000              | 0.01500           | 0.06700           | 0.01400                    |
|  | S ·  | o 0                           | <i>-</i>             | ō                        | õ                | ö                | 0.                | 0,0                               |                           | 'n                           | 'n                           | Ö                        | ö                   | ö                             | <u>.</u>                       | ö                          | Ö 0                          | <u>.</u>            |                            |  | 5 6        | <i>i c</i>   | <i>i</i> c                          | ; c                    |                         | 0                | 0             | 0.             | 0                                  | 0.0           | 0              | 0.0                       | 0              | 0.             | 0.               | Ö. 6            |                    | 5 6                                    | 5 6                | ö              | 0                | 0.                  | 0.0                 | <u>.</u>            | 0.0           | 0.                 | 0 0           | ) c                             | 0                    | 0                 | 0.0               | 0                          |
|  |  |                               |                      |                          |                  |                  |                   |                                   |                           |                              |                              |                          | •                   |                               |                                |                            | -                            |                     |                            |  |            |              |                                     |                        |                         |                  |               |                |                                    |               |                |                           |                |                |                  |                 |                    |  | -                  |                |                  |                     |                     |                     | -             | -                  |               |                                 |                      |                   |                   | _                          |
|  | CER  | 2 12                          | APPLUER!             | APPLLAPD                 | CERT             | LAPD             | CERT              | APPLLAPD                          | 7 E                       | LAPD                         | APPLLAPD                     | CERT                     | CERT                | CERT                          | APD:                           | APD 5                      | 2 2 2                        | 2 6                 | ב ב<br>ב<br>ב              | ֡֝֝֝֓֜֝֓֜֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֜֓֓֡֓֜֓֓֡֓֜֓֡֓֡֓֡֓֡֡֓֡֓֡֓֡֡֡֓֡֡֡֡֓֡֡֡֡֓֡֡֡֡֡֡ |            | ב<br>ב<br>ב  | 2 4                                 | i di                   | SER T                   | CERT             | CERT          | SERT           | CERT                               | SERT          | CERT           | CERT                      | SERT           | ΑP             | APD              | ER L            | 3 5                | 7 L                                    | 2 4                | SER T          | CERT             | APD                 | SERT                | CERT                | CERT          | ER!                | SER!          | 7 H                             | CERT                 | SERT              | APD               | SERI                       |
|  | APPLCER                                      | APPLCERI                      | APPL                 | APPL                     | APPLCERI         | APPLLAPD         | APPLCERT          | APPLLAPD                          | APPI CERI                 | APPLLAPD                     | APPL                         | APPLCERT                 | APPLCERI            | APPLCERT                      | APPLLAPD                       | APPLLAPD                   | APPLCERI                     | APPLCER!            | APPLCER!                   |  |            |              | APPI CERT                           | APPI CERT              | APPL CERT               | APPLCERI         | APPLCERT      | APPLCERT       | APPLCER <sup>-</sup>               | APPLCER       | APPLCER        | APPLCER                   | APPLCERT       | APPLLAP        | APPLLAPD         | APPLCERI        | APPLCER            | APPLCER                                | APPI CERT          | APPLCERT       | APPLCERT         | APPLLAPD            | APPLCERT            | APPLCERT            | APPLCERT      | APPLCERI           | APPLCERI      | APPLCER!                        | APPLCERT             | APPLCERT          | APPLLAPD          | APPLCERI                   |
|  | 2 2  | 6 5                           | 5 4<br>2             | : 2                      | 82               | 97               | 8                 | 33                                | - 5                       | 32.5                         | 35                           | +                        | 72                  | 55                            | ee e                           | 9 9                        | 2 8                          | 0 6                 | 2.2                        | - 6  |            | ς <u>α</u>   | 2 %                                 |                        | : 53                    |                  | 8             | 32             | 92                                 | 6             | 4              | 35                        | 99             |                | က္က              | 4 6             | 2 ;                | 2. 5                                   | 3 %                | 9 9            | ဣ                | 55                  | 82                  | မ္                  | 4:            | 4 :                | <u>_</u> 9    | 2 %                             | 3 %                  |                   | 7.                | 60                         |
|  | 29 3925                                      | 59 3926                       | 59 3949<br>59 3954   | 59 3977                  | 59 3982          | 59 3997          | 59 4030           | 59 4032                           | 59 4031                   | 59 4035                      | 59 4035                      | 59 4041                  | 59 4054             | 59 4055                       | 59 4063                        | 59 4069                    | 59 4073<br>50 4076           | 50 4070             | 59 4078                    | 50 4097  | 50 4100    | 50 4 100     | 59 41110                            | 59 4127                | 59 4143                 | 59 4147          | 59 4148       | 59 4192        | 59 4226                            | 59 4229       | 59 4244        | 59 4255                   | 59 4259        | 59 5311        | 59 4260          | 59 4304         | 59 4312            | 50 4321                                | 59 4325<br>59 4325 | 59 4326        | 59 4333          | 59 4005             | 59 4338             | 59 4346             | 59 4404       | 59 4414            | 59 4417       | 59 44 18                        | 59 4436              | 59 4438           | 59 4451           | 59 4459                    |
| г  |  |                               |                      |                          |                  |                  |                   |                                   |                           |                              |                              |                          |                     |                               |                                |                            |                              |                     |                            |  |            |              |                                     |                        |                         |                  |               |                |                                    |               |                |                           |                |                |                  |                 |                    |  |                    |                |                  |                     |                     |                     |               |                    |               |                                 |                      |                   |                   | ٦                          |
|  |  |                               |                      |                          |                  |                  |                   |                                   |                           |                              |                              |                          |                     |                               |                                |                            |                              |                     |                            |  |            |              |                                     |                        |                         |                  |               |                |                                    |               |                |                           |                |                |                  |                 |                    |  |                    |                |                  |                     |                     |                     |               |                    |               |                                 | 0                    | )                 |                   | -                          |
|  |  | n 0                           | 2                    |                          | S                |                  | SOI               | SO                                | 3_                        |                              | ٥                            | IDS                      | SOI                 | SO                            | SO                             | SO                         | מ<br>מ<br>מ                  | 2 2                 | 3 2                        | 3 2  | 3 0        | <u>מ</u>     | <u> </u>                            | SCI                    | DS                      | IDS              | SOI           | SQI            | IDS                                | IDS           | IDS            | SQI                       | IDS            | _              | !                | 20.0            | 2 0                | 2 5                                    | 3 <u>C</u>         | S              | IDS              | ₽                   | SQI                 | SQI                 | :             | SQ.                | တ္            | <u> </u>                        | 0                    |                   |                   |                            |
|  |  | n u                           | <u>-</u>             |                          | s <u> </u>       |                  | SQI               | SO                                | <u> </u>                  |                              | Ω                            | IDS                      | SOI                 | SQI                           | SOI                            | SO                         | 2 2                          | 200                 | <u> </u>                   | 3 2  | 3 0        | 2 2          | <u> </u>                            | SCI                    | SOI                     | SQI              | IDS           | SOI            | IDS                                | IDS           | IDS            | SOI                       | IDS            |                | !                | SO              | S 2                | 200                                    | S S                | S              | SOI              | <u>Q</u>            | SOI                 | SQI                 | :             | SO                 | <u> </u>      | <u>°</u> –                      |                      |                   |                   | -                          |
|  |  | n u                           | 2                    | -                        | S_               |                  | SQ                | SO                                | 3_                        |                              | ٥                            | SQI                      | SOI                 | SQI                           | SOI                            | SO                         | SOL                          | 2 2                 | <u> </u>                   | 2 2  | 3 c        | <u>ה</u>     | <u> </u>                            | Sui                    | SO                      | SQI              | IDS           | SOI            | IDS                                | SQI           | SQI            | SQI                       | IDS            |                | !                | SO              | 2 5                | 200                                    | 2 5                | S              | SOI              | <u>Q</u>            | SOI                 | SOI                 |               | SOI                | <u>ა</u> -    | <u>°</u> _                      |                      |                   |                   |                            |
|  | (  | <u>n u</u>                    | 2                    |                          | <u>S</u>         |                  | SQI               | SO                                | 2 -                       |                              | ٥                            | SOI                      | Sal                 | SOI                           | SQI                            | SOI                        | 2 5                          | 200                 | 2 2                        | 80 <u>.</u>  | <u> </u>   | ָ<br>פְּבַּ  | <u> </u>                            | SCI                    | SO                      | SOI              | SOI           | SOI            | SQI                                | SQI           | SQI            | SQI                       | SQI            |                | !                | SOL             | SO                 | 2 2                                    | <u> </u>           | <u> </u>       | SOI              | <u>Q</u>            | SQI                 | SOI                 | :             | SOI .              | <u> </u>      | <u>°</u> –                      |                      |                   |                   |                            |
|  |  | <u> </u>                      | n<br>-               |                          | S                |                  | SOI               | SOI                               | <u> </u>                  | _ ۵                          | 0                            | SOI                      | SQI                 | SOI                           | SQL                            | SOI                        | S C                          | S 2                 | 801                        | 20.0   | 2          | SC SC        | <u> </u>                            | SCI                    | SO                      | SOI              | SOI           | SOI            | IDS                                | IDS           | SOI            | SQI                       | SQI            |                | !                | SOI             | SCI                |  |                    | <u> </u>       | SQI              | <u>Q</u>            | SOI                 | SOI                 |               | SO                 | <u> </u>      | <u>o</u>                        |                      |                   |                   |                            |
|  |  | n u                           | n<br>                |                          | S.               |                  | SOI               | SO                                | _                         |                              | Ω                            | SQI                      | SQI                 | SQI                           | SQL                            | SOI                        | SQ.                          | 22.5                | SU                         | 80 C   | 2 0        |              | 200                                 | SUI                    | SOI                     | SOI              | SOI           | SQI            | IDS                                | SQI           | SQI            | SQI                       | IDS            | -              | !!               | SOL             | SO                 |  |                    | <u>S</u>       | SOI              | <u>Q</u>            | SQI                 | SQI                 |               | SOI                | <u> </u>      |                                 |                      |                   |                   |                            |
|  |  |                               |                      |                          | SI               |                  | SQI               | SQ                                | 2 _                       |                              |                              | SOI                      | SOI                 | SOI                           | SQL                            | SOI                        |                              |                     |                            |  | 2          | SCI          | <u> </u>                            | SU                     | SO                      | SOI              | SOI           | SOI            | _                                  | SOI           | SOI            | SQI                       | SQI            |                | !                | SOL             | SOL                |  |                    | <u> </u>       | SQI              | <u>Q</u>            | SOI                 | SOI                 |               | SOI                | <u> </u>      |                                 |                      |                   |                   |                            |
|  |  |                               |                      |                          | S                |                  | SOI               | SOL                               |                           |                              |                              | SOI                      |                     |                               |                                |                            |                              |                     |                            |  | 2 0        | S C          | 200                                 | SUI                    | SO                      | SOI              | SOI           | SOI            | _                                  | SOI           | SQI            | SQI                       | SQI            | -              | !                | SOL             | 80                 |  |                    | <u> </u>       | SOI              | <u>Q</u>            | SOI                 | SOI                 |               | SO:                | <u> </u>      |                                 |                      |                   |                   |                            |
|  |  |                               |                      |                          | S.               |                  | SOI               | SOI                               |                           |                              |                              |                          |                     |                               |                                |                            |                              |                     |                            |  | 2          | <u> </u>     | 82 8                                |                        |                         | SOI              | SOI           | SOI            | _                                  | SOI           |                |                           | SQI            | -              |                  | SOL             | SO                 |  |                    | 3 0            |                  |                     | SQI                 | SOI                 |               | SOI                | <u> </u>      |                                 |                      | <u> </u>          |                   |                            |
|  |  |                               |                      |                          | . <del>-</del>   |                  |                   |                                   |                           |                              |                              |                          |                     |                               |                                | IND BARBARA                | JEN AND KABEN                |                     |                            |  | 2 -        | S C          | 82 8                                |                        |                         |                  | SOI           | SOI            | _                                  | SOI           |                |                           | SQI            | -              |                  |                 |                    | ONI NOITOI IGESNOO SNOS U              |                    | <u>S</u>       |                  |                     |                     |                     |               |                    |               |                                 |                      | <u> </u>          |                   | P.                         |
|  |  |                               |                      | N.Y.                     | . <del>-</del>   |                  |                   |                                   |                           |                              |                              |                          |                     |                               |                                | IND BARBARA                | JEN AND KABEN                |                     |                            |  |            |              |                                     |                        |                         |                  |               |                | _                                  | -             |                |                           |                | VEY VEY        |                  |                 |                    | ONI NOITOI IGESNOO SNOS U              |                    |                |                  |                     |                     |                     |               |                    |               |                                 |                      | <u> </u>          | RRY M.            | MAN P.                     |
|  |  |                               |                      | S, FRANK                 | . <del>-</del>   |                  |                   |                                   |                           |                              |                              |                          |                     |                               |                                | IND BARBARA                | JEN AND KABEN                |                     |                            |  |            |              |                                     |                        |                         |                  |               |                | _                                  | -             |                |                           |                | , HARVEY       |                  |                 |                    | ONI NOITOI IGESNOO SNOS U              |                    |                |                  |                     |                     |                     |               |                    |               |                                 |                      | <u> </u>          | I, LARRY M.       | , NOKMAN P.                |
|  |  |                               |                      | ETERS, FRANK             | . <del>-</del>   |                  |                   |                                   |                           |                              |                              |                          |                     |                               |                                | IND BARBARA                | JEN AND KABEN                |                     |                            |  |            |              |                                     |                        |                         |                  |               |                | _                                  | -             |                |                           |                | JLLEY, HARVEY  |                  |                 |                    | ONI NOITOI IGESNOO SNOS U              |                    |                |                  |                     |                     |                     |               |                    |               |                                 |                      | <u> </u>          | ELSEN, LARRY M.   | SSEE, NOKMAN P.            |
| I I INTERNATION OF THE PARENCE IN  | DOBEDTO TOWARY COUNTINES OF AND PAINTINES OF |                               |                      | PETERS, FRANK            | . <del>-</del>   |                  |                   | JOHNSON, CHESTER L.               | COURSE INC.               |                              |                              | RLEE                     |                     |                               |                                | ERNEST, ROBERT AND BARBARA | JEN AND KABEN                |                     | AND BETH                   |  |            | 0            |                                     | ND WILMA               | 111                     | BATEMAN, DEON R. |               | _              | EPH L. AND CAROLYN F.              | -             |                | & KATHY E.                |                | PULLEY, HARVEY |                  | MARTIN, MARK K. |                    | ONI NOITOI IGESNOO SNOS U              |                    |                |                  |                     |                     | BERT                |               | ACIS M.            | KEID, JOHN A. | CE W (FAMILY TRUST)             |                      | <u> </u>          | NIELSEN, LARRY M. | JESSEE, NORMAN P.          |
|  | COPEDITO TOWNS OF THE CONTROL H.             | STRATION FRANCES F AND BEEN I | COOK, GRANT O. (DR.) |                          | NAYLOR, LARRY C. | NAYLOR, HENRY W. | LARSEN, RONALD L. | JOHNSON, CHESTER L. JOHNSON RANDY | GLENMOOR GOLF COURSE INC. | AFCO DEVELOPMENT CORPORATION | AFCO DEVELOPMENT CORPORATION | BLAND, BRIAN AND SHIRLEE | TIDWELL, BERT ALLEN | PHELPS, STEVEN D. & VICKI LIN | ABEY IA, CANDIDA F. AND LOUISA | ENNEST, KOBEKT AND BAKBAKA | BRINGHIJRST I OWEN AND KAREN | RICE KENNETH F (18) | ROBERTSON DOUGLAS AND BETH | ANDREGG ANNA   | DAUSE BILL | BASTIAN F P  | WALKER JOHN                         | PEASE, CECIL AND WILMA | HAM, BILLY W. AND GRACE | BATEMAN, DEON R. | HOWELL, KEVAN | BENNETT, BRENT | FLETCHER, JOSEPH L. AND CAROLYN F. | EGBERT, KEITH | SCIUTO, STEVEN | ALLEN, JAMES T.& KATHY E. | PULLEY, HARVEY | <u></u>        | MACKAY, KEITH P. | DAINER VALUE D  | DAINES, VAUGHIN K. | HALK LABSEN AND SONS CONSTBLICTION INC | PETERSEN CRAIG     | JONES, OTTO F. | AMES, STEPHEN L. | HARDMAN, DAVID NORD | RASMUSSEN, BRENT K. | PERSCHON, A. ROBERT | MOOSMAN, GLEN | HAKTEK, TKANCIS M. | KEID, JOHN A. | ANDERSON, MAS W. FEAMINY TRUST) | POTOMAC CORPORATION  | BATEMAN, GLENN W. |                   |                            |
| THE PROPERTY OF THE PROPERTY O | COPEDITO TOWNS OF THE CONTROL H.             | STRATION FRANCES F AND BEEN I | COOK, GRANT O. (DR.) | 19730702   PETERS, FRANK | NAYLOR, LARRY C. | NAYLOR, HENRY W. | LARSEN, RONALD L. |                                   | GLENMOOR GOLF COURSE INC. | AFCO DEVELOPMENT CORPORATION | AFCO DEVELOPMENT CORPORATION | BLAND, BRIAN AND SHIRLEE | TIDWELL, BERT ALLEN | PHELPS, STEVEN D. & VICKI LIN |                                | ENNEST, KOBEKT AND BAKBAKA | BRINGHIJRST I OWEN AND KAREN | RICE KENNETH F (ID) | ROBERTSON DOUGLAS AND BETH | ANDREGG, ANNA  | DAUSE BILL | BASTIAN F P  | WALKER JOHN                         | PEASE, CECIL AND WILMA |                         |                  |               |                | _                                  | -             |                |                           |                | <u></u>        | MACKAY, KEITH P. |                 | DAINES, VAUGHIN K. | HALK LARVEN AND CONSTDICTION INC       | PETERSEN CRAIG     | JONES, OTTO F. | AMES, STEPHEN L. | HARDMAN, DAVID NORD | RASMUSSEN, BRENT K. | PERSCHON, A. ROBERT | MOOSMAN, GLEN | HAKTEK, TKANCIS M. |               | ANDERSON, MAS W. FEAMINY TRUST) | POTOMAC CORPORATION  | BATEMAN, GLENN W. |                   | 19770418 JESSEE, NORMAN P. |

|          |                              |             |                   |                    |                   |                                      |               |               |                  |                                       | •.           |              |                                   |                   |                             |                                 |                  |                             |                    |                    |   |              |               |                                       |                   |             |                    |                                       |                     | <u>.</u>            |   |                          |            |          |                    |                   |                  |                  |                                     |                     |  |   |                      |  |  |   |                     |                  |                              |   | _                                 |                                 |             |           |   |                |                |  |                               | _            | _                     |  |   |                   | _                             |                                   |                                    |                | 7                       |
|----------|------------------------------|-------------|-------------------|--------------------|-------------------|--------------------------------------|---------------|---------------|------------------|---------------------------------------|--------------|--------------|-----------------------------------|-------------------|-----------------------------|---------------------------------|------------------|-----------------------------|--------------------|--------------------|---|--------------|---------------|---------------------------------------|-------------------|-------------|--------------------|---------------------------------------|---------------------|---------------------|---|--------------------------|------------|----------|--------------------|-------------------|------------------|------------------|-------------------------------------|---------------------|--|---|----------------------|--|--|---|---------------------|------------------|------------------------------|---|-----------------------------------|---------------------------------|-------------|-----------|---|----------------|----------------|--|-------------------------------|--------------|-----------------------|--|---|-------------------|-------------------------------|-----------------------------------|------------------------------------|----------------|-------------------------|
|          |                              |             |                   |                    |                   |                                      |               |               |                  |                                       |              |              |                                   |                   |                             |                                 |                  |                             |                    |                    |   |              |               |                                       |                   |             |                    |                                       |                     |                     |   |                          |            |          |                    |                   |                  |                  |                                     |                     |  |   |                      |  |  |   |                     |                  |                              |   |                                   |                                 |             |           |   |                |                |  |                               |              |                       |  |   |                   |                               |                                   |                                    |                |                         |
|          | 59                           | 29          | 29                | 20<br>10           | ر<br>د            | ກິດ                                  | 9 2           | 20.0          | 20               | 3 6                                   | 200          | 99           | 9 0                               | ם מ               | 2 2                         | ם מ                             | n (              | n c                         | 56                 | 29                 | 29                                      | 29           | 50            | 3 6                                   | 25                | 29          | ğ                  | 3 1                                   | SG<br>C             | 29                  | 20  | n<br>C                   | 29         | 20       | 9                  | 59                | 50               | 3 6              | 25.                                 | 29                  | 59   | 3 6   | S ·                  | 20   | 59   | 3 6   | e i                 | 26               |                              | 0                                       | 9 1                               | 26                              | 29          | 29        | 0.5                                     | D (            | S<br>S         | 29   | 50                            | 9 6          | n<br>n                | 20   | 50                                      | 3 6               | ñ                             | 29                                | 50                                 | 3 6            | 20                      |
|          |                              |             | 9                 |                    |                   | _                                    |               |               |                  | _                                     |              |              |                                   |                   |                             |                                 |                  |                             |                    | _                  |   |              |               |                                       |                   |             |                    |                                       |                     |                     |   |                          |            |          |                    |                   |                  |                  |                                     | 7                   |  |   |                      |  | 20   | 2 .   | 7                   | 1W26             | 21                           |   |                                   |                                 | 1W22        |           |   |                |                |  |                               |              |                       |  |   | 3 8               | 33                            | 6                                 | 4                                  | ٠,             | 4                       |
|          |                              | 3S 2W34     |                   | Ξ.                 | 35 1W 5           | 35 TW 3                              |               |               |                  |                                       |              |              |                                   |                   |                             |                                 |                  |                             |                    |                    | 3S 1W14                                 | 3S 1W14      | 3S 1W14       |                                       |                   | 3S 2W33     |                    | _                                     | 3S 1W16             | 3S 1W16             |   | 45 27                    | 3S 1W28    | 20 414 2 | 2                  | 3S 2W33           | 3S 1W 5          |                  | 35 1W16                             | 3S 1W27             | 3S 1W22  |   | 35 1W29              | 3S 1W20  | 3S 1W20  | 3   | ׅ֝֝֝֝֝֝֝֝֝֝֝֝֝֝֝֟֝֝ | 33               | 3S 2W21                      |   |                                   |                                 | 38 1∖       | 3S 1W28   |   |                |                | 3S 1W 9  |                               |              |                       | 3S 2W33  |   |                   |                               | 3S 1W 9                           |                                    | 3              | 35 1W14                 |
|          | ١.                           |             | 2310 E4SL         | .,                 |                   | •                                    |               | •             |                  |                                       |              |              |                                   |                   | ,                           |                                 |                  |                             |                    |                    |   |              | ٠,            |                                       |                   | OOO SEST    |                    |                                       | 850 N4SL            | 850 N4SL 3          |   |                          | 1255 N4SL  | -        | •                  | 1100 SESL         | 1200 SWS         |                  |                                     | 810 N4SL 3          | 1500 SWSI  | 1   |                      | 1100 SWSL  |  |   | JOWN OUT            | - 1              | 166 E4SL                     |   |                                   | 1226 NESL                       | 1500 SWSL   | 1090 N4SL |   | OWOL.          | -              | 584 SESL   |                               |              |                       | 550 SESL   |   |                   | _                             | 777 SESL 3                        |                                    |                | 420 N4SL                |
|          |                              |             | V 2310            | 490 E              | •                 | •                                    | -             |               |                  | _                                     |              | •            |                                   |                   |                             | ~                               | _                |                             |                    | • •                | •                                       |              | ٧             |                                       | _                 |             |                    |                                       |                     |                     |   |                          |            |          |                    |                   |                  | ,                | _                                   |                     |  | . 1   |                      |  |  |   |                     | 1860             |                              | 1                                       |                                   |                                 |             |           | ·                                       |                |                |  |                               |              |                       |  | נא                                      | 3                 |                               |                                   |                                    |                |                         |
|          | 335 W                        | 350 W       | 1030 W            | 45 W               | N 02./            | 340 11                               | 180 W         | 200           | 404<br>F         | 130 W                                 | 175 W        | 805 F        | 450 1/4                           | 1150 F            | 150                         | 1600 14                         | 2020             | 450 W                       | 920 W              | 765 E              | 205 E                                   | 1120 E       | 235 E         | 2 6                                   | 263 E             | 300 W       | 300 W              | 200                                   | \<br>20 €           | 200 W               | 0.00  | 240 E                    | 335 W      | 007      | 5                  | 100 <b>∀</b>      | 1300 E           |                  | %<br>%                              | 1420 E              | 1050 F   | 3 6   |                      | 184<br>E   | 184 F  | 5 6   |                     |                  | 1840 W                       | 200                                     |                                   | 340 W                           | 1050 E      | 200 W     |   |                | 100 W          | 962 W  |                               |              |                       | 345 W  |   |                   |                               | - 65 W                            | •                                  |                | 250 W                   |
| ſ        | 01500 S                      |             |                   | 0.01500 S          |                   | 0.03000 S                            |               |               |                  |                                       |              | _            | _                                 |                   |                             |                                 | 000              | 0.01500                     |                    |                    | 0.01500 S                               | 0.04500 S    | _             | 2 2                                   | 0.01500 N         | 0.01500 N   | 0 04500 N          | _                                     | 0.04000   S         | 0.04000 S           | 0   | 0.01500                  | 0.01500  S | 004500   | _                  | 0.01500 N         | N OSOO O         | _                | 0.02000                             | 0.05000 S           | 0 01500 N  |   |                      | 0.01500 N  | 0 01500 N  | _   |                     | 0.01500   S      | N DOODO O                    | _                                       |                                   | 0.01500   S                     | 0.01500 N   | 0.01500   | 0.000                                   |                | 0.01500   S    | 0 06700 N  | _                             |              |                       | 0 01500 N  |   | _                 | 0.01500 N                     | 0.05400 N                         |                                    | 2000           | 0.02200                 |
| <b>-</b> | 0.01                         | 0.01        | 0.0               | 0.01               | 1.00              | 9.0                                  | 5 5           | 5 6           | 0.0              | 5 6                                   | 9.0          | 000          | 9 6                               | 5 6               | 9 6                         | 5 6                             | 5 6              | 0.0                         | 0.0                | 0.0                | 0.0                                     | 0.0          | 0             | 5 6                                   | 0.0               | 0.0         | ò                  | 9                                     | 0.0                 | 0.0                 | 6   | 0.0                      | 0.0        |          | 5                  | 0.0               | C                | ś i              | 0.0                                 | 0.0                 | 0  | 9 6   | 0.0                  | 0.0  | ċ  | 2 6   | 0.0                 | 0.               | C                            | 5 6                                     | 0.0                               | 0.0                             | 0.0         | Ò         | 9 6                                     | 0.0            | 0.0            | Ö  | Č                             |              | 0.0                   | 0  |   | 2                 | 0.0                           | 0.0                               | ÷                                  | - i            | O.U.                    |
|          | -                            |             |                   |                    |                   |                                      |               |               |                  |                                       |              |              |                                   |                   |                             |                                 |                  |                             | _                  | _                  |   |              |               |                                       |                   |             |                    |                                       | _                   | _                   |   | _                        | L          |          |                    | _                 |                  |                  |                                     | _                   |  |   | _                    | _  |  |   |                     |                  | _                            |   | _                                 |                                 | _           | _         | _                                       | _              | _              | _  |                               |              | _                     |  |   | _                 | _                             | -                                 |                                    |                |                         |
| 2        | APPLLAPD                     | APPLLAPD    | APPLLAPD          | APPLLAPD           | APPLLAPU          | AFFLLAFU                             |               |               | APPI CERT        | APPLIAPD                              | APPI CERT    | APPI I APD   | APPI APP                          |                   | APPLIAPD                    |                                 | APPLOER          | APPLLAPD                    | APPLLAPD           | APPLCERT           | APPLCERT                                | APPI I APD   | APPI I AP     | ָרְיבָּי<br>בּייִר                    | APPLAPP           | APPLAPP     | 941994             | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | APPLLAPD            | APPLLAPD            |   | APPLLAPD                 | APPL CERT  |          | AFFLLAF            | APPLLAPD          | ADD LADO         | ָרְרָאַ<br>הַיּ  | APPLCERI                            | APPLLAPD            | APPI I AP  | ֡֝֝֝֝֜֜֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֡ | APPLLAPD             | APPLLAPD   | TEMPEYO  |   | APPLLAPU            | APPLCERT         | APP! WDD                     | ֡֝֜֝֝֜֜֝֓֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | AFFLLAFU                          | APPLCER1                        | APPLI APD   | APP! APP  | ֡֝֝֝֓֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | APPLCER        | APPLLAPD       | APPI CER   |                               |              | APPLLAPD              | APPI CFRT  | ֡֝֜֜֜֜֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | AFFLLAFU          | APPLLAPD                      | APPLAPP                           |                                    | רוארו          | APPLLAPD                |
|          | APF                          | APF         | APF               | APF                | 4                 | ¥ 4                                  | 4             | 4             | 4                | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | V A          | A A          | V 0                               | 40.0              | 4                           | ( <                             | ¥ 4              | ¥.                          | AP                 | AP                 | APF                                     | APF          | App           | ֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | ¥.                | APF         | 2                  | <u> </u>                              | AP                  | APF                 | ָבְיבָּיבְיבָּיבְיבָּיבְיבָּיבְיבָיבְיבָיבְיבָיבְיבָיבְיבָיבְיבְיבָיבְיבְיבְיבְיב | <u> </u>                 | AP         |          | <u> </u>           | ΑP                | 20               | (                | AP                                  | AP                  | ΔΔ   | ֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓       | AP                   | AP   | Ē  | <u></u>   | AP                  | AP               | ΔD                           |   | <u> </u>                          | AP                              | ΔÞ          | 4         | <u> </u>                                | <u> </u>       | AP             | ΔD   | 2                             | Ę :          | AP                    | ΔV   |   | Ĭ.<br>₹           | AP                            | AP                                | <u> </u>                           | Į.             | Ā                       |
|          | 59 4801                      | 59 4807     | 59 4825           | 59 4830            | 59 4831           | 59 4833                              | 50 4838       | 50 4845       | 59 4842          | 59 4847                               | 59 4848      | 59 4858      | 50 4863                           | 59 4903           | 50 4874                     | 407-                            | 24673            | 59 4877                     | 59 4894            | 59 4901            | 59 4908                                 | 59 4912      | 59 4917       | 100                                   | 59 4924           | 59 4925     | 60 4020            | 0 4920                                | 59 4941             | 59 4941             |   | 59 4935                  | 59 4940    | 200      | 29 4947            | 59 4946           | 50 4047          | 1101             | 59 4948                             | 59 4957             | 50 1062  | 2024 6                                      | 59 4964              | 59 4970  | 50 4074  | 1040  | 59 4974             | 59 4982          |                              |   | 59 4330                           | 59 5001                         | 59 5000     | 50 5047   | 400.0                                   | 29 2025        | 59 5054        | 50 5050  |                               | 9000         | 59 5070               | 50 5085  |   | 29 2084           | 59 5089                       | 59 5101                           | 200                                | 59 4813        | 59 5105                 |
| - T      | 20                           | ŭ           | ñ                 | í čí               | i ù               | O V                                  | ) ŭ           | ) ič          | i ir             | יי כ                                  | ) un         | ) ič         | ) úč                              | ייי כ             | ) Œ                         | o u                             | n i              | ומ                          | io.                | Ω.                 | <u>v</u>                                | Ú.           | ŭ.            |                                       | S                 | Ŝ           | 4                  | <u>0</u>                              | 2                   | 22                  |   | <u></u>                  | C          | ) L      | <u>ი</u> _         | 2                 | u                | י כ              | 2                                   | 10                  | נ  | 2 '   | 2                    | 2  |  | 0   | 2                   | 2                |                              |   | <u>ဂ</u>                          | -C                              | LC.         | 140       | י נ                                     | n              | 2              |  | ) L                           |              | (C)                   | Ľ  | <u> </u>                                |                   | u)                            | 47                                | , .                                | .,             | 13                      |
| _        |                              |             |                   |                    |                   |                                      |               |               |                  |                                       |              |              |                                   |                   |                             |                                 |                  |                             |                    |                    |   |              |               |                                       |                   |             |                    |                                       |                     |                     |   |                          |            |          |                    |                   |                  |                  |                                     | _                   |  |   |                      |  |  |   |                     |                  |                              |   |                                   |                                 |             |           |   |                | O              |  |                               |              |                       |  |   |                   |                               |                                   |                                    |                |                         |
|          | _                            | SQI         | IDS               | SQ                 | o<br>_ <u>:</u>   | 2 2                                  | ع د           | 3 =           | ַ טַ             | <u>د</u>                              | 2 2          | 2 2          | 2 2                               | <u>2</u> <u>c</u> | 2 2                         | 3 0                             | 0 2              | 2 !                         | SO                 | ≘                  | _                                       | SCI          | !<br>! _      | _ !                                   | SCI               | IDS         | 2                  | 3                                     | SOI                 | IDS                 | 2   | 2                        | IDS        | 9 9      | ⊇.                 | IDS               | 2                | 2                | _                                   | 0                   | ď  | 2 !   | <u>S</u>             | SO   | 9 0  | 2   | IDS                 | SOI              |                              |   | SCI                               | _                               | SCI         | 2         | <u>S</u> .                              |                | 0 8            |  | 2 (                           | _            | IDS                   | מכו  | 2 6                                     | 2                 | SQI                           | _                                 |                                    | 2              | =                       |
|          |                              | SQI         | IDS               | SOI                | 0                 | 2 2                                  | <u> </u>      | 3 ⊆           | 2 4              | SU                                    | S            | S            | 200                               | <u> </u>          | 2 5                         | 3 0                             | n 2              | SE                          | SO                 | <u>≘</u>           | _                                       | SCI          | <u> </u>      | _ !                                   | SCI               | SQI         | 2                  | 5                                     | SQI                 | IDS                 | 2 2   | 2                        | IDS        | 9 5      | <u>⊇</u>           | IDS               | 2                | <u>2</u>         | _                                   | _                   | ָ<br>בַּ   | 2 !   | SOI                  | IDS  | 2  | 3   | SOI                 | SQ               |                              | į                                       | SCI                               | _                               | SCI         | 2         | <u>2</u> .                              |                |                |  | 2 6                           | <u> </u>     | SQI                   | יי   | 3 6                                     | 3                 | SQI                           | _                                 |                                    | 2              | _                       |
|          |                              | SOI         | SOI               | SOI                | 0                 | 2 5                                  | <u>5</u>      | 3 ⊆           | 2 <u>v</u>       | 2 2                                   | SC           | S C          | 3 <u>0</u>                        | <u> </u>          | <u> </u>                    | <u> </u>                        | 0                | SCI                         | SOI                | <u>a</u>           | _                                       | SOI          | <u> </u>      | _ !                                   | SOI               | SOI         | 000                | 82                                    | SOI                 | SOI                 | 9 6   | SOIL                     | IDS        | 9        | <u>2</u>           | IDS               | 901              | 3                | -                                   | _                   | SUI  | 201   | =                    |  |  |   | SQI                 | IDS              |                              | <u>.</u>                                | SCII                              | _                               | SCI         | 90        | <u>2</u> .                              |                |                |  | 2 (                           | <u> </u>     | SQI                   | מבו  | 2 4                                     | SOL               | SQI                           | _                                 | 9                                  | SCI            |                         |
|          |                              | SGI         | SQI               | SOI                | 0                 | <u>80</u> 0                          | <u> </u>      | <u> </u>      | ر<br>ت           | SU                                    | SCI          | SCI          | 901                               | <u> </u>          | <u> </u>                    | <u> </u>                        | 0 0              | SCII.                       | SOI                | <u>Q</u>           | _                                       | SOI          | _             | _ !                                   | SCI               | SOI         | 300                | 5                                     | SOII                | SOI                 | 9 6   | SOIL                     | SOI        | 2 4      | ⊇.                 | SOI               | פינו             | 3                | -                                   | _                   | שטו  | 2 :   | =                    |  |  | NOI &   | SQI                 | SOI              |                              |   | SOIL                              | _                               | SCI         | 90        | <u>S</u> .                              |                |                |  | 2 0                           | <u>a</u>     | SQI                   | מכו  | 2 4                                     | SOIL              | SQI                           | _                                 |                                    | SCI            |                         |
|          |                              | SOI         | SQI               | SOI                |                   |                                      | 5 E           | 200           | <u>۔</u><br>م    | SU                                    | SU           |              | 901                               | <u> </u>          | 5 <u>5</u>                  | <u> </u>                        | 0 1              | SOL                         | SO                 | <u>a</u>           |   | SCI          | <u> </u>      |                                       | SCI               | SQI         | 90                 | 80                                    | SOI                 | SOI                 |   | SOIL                     | SOI        | 2 4      | <u>a</u> .         | SOI               | 90               | 2                | -                                   | 0                   | SUI  | 2   | =                    |  |  | NOI &   | SOI                 | SOI              |                              |   | SOIL                              |                                 | SCII        | 9 5       | 2                                       |                |                |  | 2.0                           | <u> </u>     | SQI                   | 201  |   | 2                 | SQI                           | _                                 |                                    | SCI            |                         |
|          |                              | SQI         | SQI               | SOI                |                   |                                      | SC SC         | 2 =           | ع ق              | SUI                                   | SUI          | SUI          |                                   |                   |                             |                                 |                  |                             | SOI                | <u>a</u>           |   | SOL          |               | _ !                                   | SOI               | SOII        | 90                 | 02                                    | SOI                 | SO                  | 2 4   | SOIL                     | SOI        | 2        | 2                  | SOI               | SUI              | 2                | -                                   | 0                   | SUI  | 201   | =                    |  |  | NOI &   | SQI                 | SQI              |                              |   |                                   |                                 | SUI         | 90        | 2                                       |                |                |  |                               | <u> </u>     | SOI                   | 201  | 2 4                                     |                   | <u> </u>                      | 200                               |                                    | SCI            |                         |
|          |                              | SQI         | SQI               | SOI                |                   |                                      | 5 E           | 2 =           | <u>ہ</u> ت       | SCI                                   | SCI          | SUI          |                                   |                   |                             |                                 |                  |                             | SOI                | <u>a</u>           | JAN R.                                  |              | !             | _ !                                   | SOI               | SOI         | 90                 | 82                                    | SOI                 | SOI                 | <del>-</del>  |                          |            |          | <u>a</u>           | SOI               | 90               |                  | ~                                   |                     | SC.  | 2   | =                    |  |  | NOI &   | SQI                 | SOI              |                              |   |                                   |                                 |             | 9 2       | 201                                     |                |                |  |                               | <u> </u>     | SQI                   | 201  | 22 4                                    |                   | <u> </u>                      | II GIVEN OF                       |                                    | SOI            |                         |
|          | I I                          |             |                   | SOI                |                   |                                      | 32            |               | ت ت              | SU                                    |              |              |                                   |                   |                             |                                 |                  |                             |                    | <u>a</u> :         | V. & JOAN R.                            |              |               | _ !                                   | SOI               | SOII        | 300                |                                       |                     |                     | <del>-</del>  |                          |            |          | <del>-</del>       |                   |                  |                  | & JANE R.                           |                     |  |   | =                    |  |  | NOI &   | SQI                 |                  |                              |   |                                   | JEI ODY A                       |             |           | 2 .                                     |                |                |  |                               |              |                       |  |   |                   | <u> </u>                      | S SIVAM UNA A C                   |                                    | SCI            |                         |
|          | ORMAN K.                     |             |                   | SOI                |                   |                                      | <u> </u>      |               |                  | ·                                     |              |              | Na IOI & a mind in                | י דאטר א. מיטרהי  |                             |                                 |                  |                             |                    | 4RRY J.            | INTON V. & JOAN R.                      |              |               |                                       | SCI               | SOI         |                    |                                       |                     |                     | <del>-</del>  |                          |            |          | <del>-</del>       |                   |                  |                  | ALD D. & JANE R.                    |                     |  |   | =                    |  |  | NOI &   | SOI                 |                  |                              |   |                                   | I A MEI ODY A                   |             |           |   |                | <u>S</u>       |  |                               |              |                       |  |   |                   | <u> </u>                      | DAVID A AND MAVIS G               |                                    |                |                         |
|          | SON, NORMAN K.               |             | AUL R.            | SOI                |                   |                                      | <u> </u>      |               |                  | ·                                     |              |              | Na IOI & a mind in                | י דאטר א. מיטרהי  |                             |                                 |                  |                             |                    | TEN, LARRY J.      | ON, CLINTON V. & JOAN R.                |              |               |                                       |                   |             |                    |                                       |                     |                     | <del>-</del>  |                          |            |          | <del>-</del>       |                   |                  |                  | ODNALD D. & JANE R.                 |                     |  |   | =                    |  |  | NOI &   |                     |                  |                              |   |                                   | GI ENN N. & MEI ODY A.          |             |           |   |                | <u>S</u>       |  |                               |              |                       |  |   |                   | <u> </u>                      | CHECHT DAVID A AND MAVIS G        |                                    |                |                         |
|          | INDERSON, NORMAN K.          |             | AUL R.            | SOI                |                   |                                      | <u> </u>      |               |                  | ·                                     |              |              | Na IOI & a mind in                | י דאטר א. מיטרהי  |                             |                                 |                  |                             |                    | SCHOUTEN, LARRY J. | RUSHTON, CLINTON V. & JOAN R.           |              |               |                                       |                   |             |                    |                                       |                     |                     | <del>-</del>  |                          |            |          | <del>-</del>       |                   |                  |                  | IENSEN, DONALD D. & JANE R.         |                     |  |   | =                    |  |  | NOI &   |                     |                  |                              |   |                                   | SOWE GIENN & MEI ODY A          |             |           |   |                | <u>S</u>       |  |                               |              |                       |  |   |                   | SCHOUDEL, JAMES E. AND SANDRA | MANUEL WEIGHT DAVID & AND MAVIS G |                                    |                | HATT, THIEL F.          |
|          | ANDERSON, NORMAN K.          |             | AUL R.            | SOI                |                   | LENE (C/O MABLE JENKINS)             | WALNER, E. R. |               |                  | ·                                     |              |              | Na IOI & a mind in                |                   |                             | VANABLE COVERY, CON AND DEIVINE | HOLBROOK, VENILE | VANSLEEUWEN, KONALU & JANEI |                    | SCHOUTEN, LARRY J. | RUSHTON, CLINTON V. & JOAN R.           |              | I CIVAN WANTE |                                       | IVIE, JIM DEE IDS | IVE JIM DEE | ANN IN THIS COUNTY | DANSIE, RENI ALMA                     | MCALLISTER, LYLE D. | MCALLISTER I VI F D |   | SAVAGE, EARL & CHRISTINE |            |          | HANSEN, GREGORY L. | HANSHN PALI LIBOY | CINCOLO INCLUSIO | BALVIN, SUSAN D  | JENSEN, DONALD D. & JANE R.         | BOWMAN III HABOLO I | NATIONAL DESCRIPTION OF THE PROPERTY OF THE PR | KAKI CHNEK, EAKL                            | HILBERT, DEMA & GARY | CALLISTER REAL ESTATE AND INVESTMENT CORPORATION | CALLACTION TO A TAXABLE MANAGEMENT OF TAXABL | CALLISTER REAL ESTATE AND INVESTIMENT CORPORATION | JU, DAVID           | SOBENSON BESSELL | VELIFICATION COLUMN CALLETTO | SOUTH VALLET WATER RECLAMATION FACILITY | RICE, KENNETH F. (JR.) & DIANA M. | ROWF GIENN N & MFLODY A         | COMP. CHEST |           | BAKEK, JOHN K.                          | PONT, DONALD E | MADSEN ORVILLE | PILITA I OLIVO | TATES, J. MAC AND GLORIA NOTA | MASCARO, BOB | GILES LEE A AND KATHY | CONTRACTOR OF THE CONTRACTOR O | GONDON, DAL & REALITA                   | HOLMAN, BOBBY JOE | SCHOUDEL, JAMES E. AND SANDRA |                                   | WHELWRIGHT, DAVID A. AND IMAVIS G. | PRICE, JOHN L. |                         |
|          | 19810302 ANDERSON, NORMAN K. | DANSIE, TOM | TISCHNER, PAUL R. | BUTCHER, WANEMA C. | SOUTHWIRE COMPANY | SCHMIDI, DARLENE (C/O MABLE JENKINS) | <u> </u>      | THOMETY I DEI | MIZMAN I ESTED 1 | NTAL IND. DEX                         | STALINGS DON | HILL ALLEN F | VANSI EELIAKEN DAIII D. 2. IOI EN | HANGEN GREG       | VANC FELIMEN OON AND LENNIE | VANABLE COVERY, CON AND DEIVINE | HOLBROOK, VENILE | VANSLEEUWEN, KUNALU & JANE  | HANSEN, CHARLES G. | _                  | 9820902   RUSHTON, CLINTON V. & JOAN R. | PEASE JANICE | DECRAW DAVID  |                                       |                   |             | ANN IN THIS COUNTY | DANSIE, RENI ALMA                     |                     |                     |   |                          |            |          | <del>-</del>       |                   | CINCOLO INCLUSIO | BALVIN, SUSAN D. | 9830527 JENSEN, DONALD D. & JANE R. |                     | NATIONAL DESCRIPTION OF THE PROPERTY OF THE PR | KAKI CHNEK, EAKL                            | =                    | CALLISTER REAL ESTATE AND INVESTMENT CORPORATION | MOTENCIAL CONTRACTOR C | CALLISTER REAL ESTATE AND INVESTIMENT CORPORATION |                     |                  | VELIFICATION COLUMN CALLETTO | SOUTH VALLET WATER RECLAMATION FACILITY |                                   | 9840507 ROWF GLENN N & MFLODY A |             |           | BAKEK, JOHN K.                          |                | <u>S</u>       | PILITA I OLIVO | TATES, J. MAC AND GLORIA NOTA |              |                       | CONTRACTOR OF THE CONTRACTOR O | GONDON, DAL & REALITA                   |                   | <u> </u>                      |                                   | WHELWRIGHT, DAVID A. AND IMAVIS G. | PRICE, JOHN L. | 19850604 HATT, THIEL F. |

| 19920825 | GORDON SCOTT  | SQ            | 59 5364         | FIXDLAP             | 0.00000   | N 30 W   | 400 SESL 3S              | 2W33           | 59    |  |
|----------|---|---------------|-----------------|---------------------|-----------|----------|--------------------------|----------------|-------|--|
| 19920914 | FOOTHILLS WATER COMPANY   | IDS           | 59 3879         | APPLEXP             |           | 740 E    | _1                       |                | 29    |  |
| 19921015 | FITZGERALD, DENNIS  | SQI .         | 59 5374         | FIXDAPP             | _         |          |                          |                | 29    |  |
| 19921217 | SCHMIDI, HENRY F.   | _             | 59 4258         | APPLAPP             | 0.25000   | W 6/8 N  | 460 545L 35              |                | 29    | <u>,                                      </u> |
| 19921217 |   |               | 59 4258         | APPLAPP<br>APPI APP |           |          |                          |                | 50.00 | ÷  |
| 19921217 | HENRY F.  |               | 59 4258         | APPLAPP             |           |          |                          |                | 59    |  |
| 19921217 | SCHMIDT, HENRY F. (TRUST)   |               | 59 4258         | APPLAPP             |           |          |                          | 1W 3           | 26    |  |
| 19921217 | SCHMIDT, HENRY F.   |               | 59 4258         | APPLAPP             |           |          | ۲,                       |                | 29    |  |
| 1992121/ | SCHMIDT, HENRY F.   | <del></del> - | 59 4258         | APPLAPP             | 0.25000   | N 2640 W | 1100 S4SL 3S             | 7W 3           | 20    |  |
| 19921217 | SCHMIDT HENRY F (TRUST)   |               | 59 4258         | APPI APP            |           |          |                          |                | 20    |  |
| 19921217 | SCHMIDT, HENRY F.   | _             | 59 4258         | APPLAPP             |           |          |                          |                | 26    |  |
| 19921217 | SCHMIDT, HENRY F.   |               | 59 4258         | APPLAPP             |           |          | 460 S4SL                 |                | 59    |  |
| 19930104 | DANSIE, RICHARD PAUL  | IDS           | 59 5383         | FIXDAPP             |           | •        | 100 S4SL                 |                | 29    |  |
| 19930412 | TEE, KEVIN M.   | SQI<br>SQI    | 59 5390         | FIXDAPP             | 0.01500   | N 345 W  | 550 SESL 3S              | 2W33           | 20    |  |
| 19930430 | KENNECOTT LITAH COPPER CORPORATION  | o             | 59 945          | APPI EXP            |           | ~        | ´ _                      | 3S 2W17        | 59    |  |
| 19940119 | KENNECOTT UTAH COPPER CORPORATION   |               | 59 945          | APPLEXP             |           |          | 1 _1                     | 3 2W17         | 59    |  |
| 19940217 | HERRIMAN PIPELINE AND DEVELOPMENT COMPANY                                   |               | 59 5258         | APPLAPP             |           |          | 1316 SESL                | S 2W34         | 26    |  |
| 19940217 | HERRIMAN PIPELINE AND DEVELOPMENT COMPANY                                   | ٠.            | 59 5258         | APPLAPP             | 1.00000   | N 2020 W | 100 SESL :               | 3S 2W34        | 59    |  |
| 19940302 | SALT AKE COUNTY   |               | 59 5425         | APPLAPP<br>APPI APP |           |          | 1260 NESL                | _              | 20    |  |
| 19940511 | DE LIA, JULIAN E.   | IDS           | 59 5440         | FIXDLAP             |           |          |                          |                | 26    |  |
| 19950103 | RIVERTON CITY   | O             | 59 1533         | APPLAPP             |           |          |                          |                | 29    |  |
| 19950126 | KENNECOTT UTAH COPPER CORPORATION   |               | O               | APPLEXP             |           |          | C.J                      | 3S 2W27        | 29    |  |
| 19950126 | KENNECOTT UTAH COPPER CORPORATION   | . (           | 59 3            | APPLEXP             |           | ٠,       | <u>،</u> د               | - 3S 2W16      | 29    |  |
| 19950731 | IWAMUTU, TAKEU  | )<br>-        | 59 4544         | APPLWU<br>Appl App  | 3 00000   | 0 10 W   | 2634 NESI 35             | 38 2007        | 0.00  |  |
| 19950011 | KENNECOTT LITAH COPPER CORPORATION  |               | 0               | APPLAPP             |           |          |                          | 3S 2W27        | 29    |  |
| 19960226 | KENNECOTT UTAH COPPER CORPORATION   |               | 59 3            | APPLAPP             |           | ٠.       |                          | 3S 2W16        | 59    |  |
| 19960314 | HYMAS, CHAD   | ₽             | 59 5525         | FIXDAPP             |           |          |                          | 3S 2W33        | 59    |  |
| 19960314 | TURNER, LARRY J.  | ′ و           | 59 5524         | FIXDAPP             |           |          |                          | 2W33           | 53    |  |
| 19960412 | RIVERTON (CITY OF)  | ပ             | 59 1554         | APPLAPP             | 1.50000   | S 320 W  | 722 NESL 35              | 1883<br>98/86  | 20    |  |
| 19960612 | JORDAN VALLEY WATER CONSERVANCY DISTRICT KENNECOTT LITAH CORPER CORPORATION |               | 59 330          | APPLUNAP            |           |          | Ĺ                        | 3S 2W27        | 20    |  |
| 19961114 | LARSEN TERRY AND LINDA LUZITANO   | _             | Ω̈́             | APPLREJ             |           | •        |                          | 1W26           | 29    |  |
| 19961121 | TURNER, FRANK P.  | IDS           | 59 5547         | FIXDAPP             |           |          | 38                       | 3S 2W33        | 29    |  |
| 19961121 | TURNER, LARRY J.  |               | 59 5524         | APPLWD              | 0.00000   | N 764 W  | 80 SESL 3S               | 3S 2W33        | 26    |  |
| 19961210 | HYMAS, CHAD<br>IKENNECOTT LITAH COPPER CORPORATION                          |               | 59 5525<br>59 3 | APPLAPP<br>APPLAPP  | 2.00000   | S 3700 E | 77                       | 2W33<br>S 2W16 | 59    |  |
| 19970501 | DANSIE, A. BRENT  | SQI           | ŝ               | TEMPAPP             | 0.00000   | N 1096 E | 27 S4SL 3S 2W34          | 2W34           | 29    |  |
| 19970616 | GORDON, DAL & REATHA  |               | ũ               | APPLAPP             | 0.00000   | N 255 W  |                          | 3S 2W33        | 29    | -  |
| 19970818 | KENNECOTT UTAH COPPER CORPORATION   |               | 59 3            | APPLAPP             | 3.00000   | S 115 W  | 2634 NESL 38             | 3S 2W27        | 65 6  |  |
| 19980121 | DANSIE, A. BRENT AND ALYCE ANN  | 2 2           | 59 55/1         | APPLAPP<br>APPLAPP  | 0.0000    | 1000 N   | 100 S4SL 3S 2W34         | 2W34           | 20    |  |
| 19980121 | DANSIE, A. BRENI AND ALYCE ANN  |               | 59 5581         | APPI APP            | 0.00000   |          |                          | S 2W35         | 29    |  |
| 19980424 | CARTER, MYRNA B. (FAMILY TRUST AGREEMENT)                                   |               | 59 5581         | APPLAPP             | 0.00000   |          |                          | 3S 2W35        | 29    |  |
| 19980617 | HAMILTON, LOWELL AND MARY L.  | _             | 59 2720         | APPLAPP             | 0.00000   |          | 300 NESL 4S              | 4S 2W 3        | 20    |  |
| 19980617 | HAMILTON PROPERTIES L.C., LOWELL W.   |               | 59 5582         | APPLAPP             | 0.00000   | S 400 W  | 1320 NESL 48             | 45 2W 3        | 2 2   |  |
| 19980617 | HAMILTON PROPERTIES L.C., LOWELL W.   |               | 59 5582         | APPLAPP<br>APPI APP | 0.0000    | S 400 W  | . 1                      | 45 2W 3        | 20 00 |  |
| 19980728 | DANSIE JESSE RODNEY   | DS            | 59 1200         | APPLUNAP            | 1.62700   | S 2210 W | 1372 NESL                | 3S 2W34        | 29    |  |
| 19980728 | DANSIE, JESSE RODNEY  | DS            | 59 1200         | APPLUNAP            | 1.62700   | -        |                          | 2W33           | 29    |  |
| 19980728 | DANSIE, JESSE RODNEY  | DS            |                 | APPLUNAP            | 1.62700   | N 1485 W | 244 S4SL                 | S 2W34         | 20    |  |
| 19980728 | DANSIE, JESSE RODNEY  | S             | 59 1200         | APPLUNAP            | 1.62700   | S 1428 W | 1425 NESL<br>5 W// SI 3S | 3S 2W34        | 2 3   | ,  |
| 19980728 | IDANSIE, JESSE RODNEY   | S             | 0071 60         | AFFLUIMF            | 1.021.001 | -        |                          | 10             | 3     | 7  |

# APPENDIX E

Letters of Support and Minutes From City/Town Councils of Affected Communities



Office: (801) 446-5323
Fax: (801) 446-5324

24 November 1999

Richard P. Bay, PE Jordan Valley Water Conservancy District 8215 South 1300 West West Jordan, UT 84088-0070

Dear Mr. Bay:

Thank you for the presentation to the Herriman Town Council on Thursday, 18 November. The presentation was most informative and interesting. We appreciate your time and your interest in available water resources for the town of Herriman.

This will also provide an expression of support for the proposed project to reclaim contaminated water for culinary use by the municipalities in the southwest sector of the Valley. Quality water resources are vital to the health and welfare of our communities. We are certainly interested in and support your efforts in behalf of Herriman.

Sincerely,

Krymlstane
J. Lynn Crane

Mayor

# DRAFT

South Jordan City City Council Regular Meeting November 16, 1999

Councilman Warne made a motion to approve the October 26, 1999 City Council meeting minutes, as printed. Councilman Criner seconded the motion. The vote was unanimous in favor, with Councilman Christensen absent.

- II. AWARDS, PRESENTATIONS, APPOINTMENTS, AND PROCLAMATIONS
  - A. U.S. Census 2000 Presentation By Joanie Burum

Joanie Burum, said she is a recruiter with the U.S. Census. She showed a video outlining the responsibility and impact that the census will have on the community. She provided some handouts (Attachment A). Ms. Burum said she will be training people for the southwest quadrant of the valley. She said there is a lot of information, and there is a lot of needs to meet. She said forms will be sent to the residents on March 15th, requesting census information. She said the second notice will be sent on April 1st, also known as Census Day. She said they will be doing a lot of advertising, and working with the cities to get a good count for the census. She said the people doing the counting will be starting the end of April, or the beginning of May. She said they will also have Quality Assurance Centers for people to bring in their census forms.

B. Jordan Valley Water Conservancy District (Richard Bay) And Kennecott Utah Copper Corporation (John Callender) Presentation

Richard Bay, Jordan Valley Water Conservancy District, and Jon Callender, Kennecott, introduced themselves. Dale Gardner, representative for South Jordan City, and Mr. Henderson with the Jordan Valley Water Conservancy District, were also introduced.

Mr. Bay passed out some information on their proposed Southwest Extraction and Treatment Project (Attachment B).

Jon Callender, Kennecott, showed a map of the Southwest Jordan Valley sulfate concentration at any depth 1994-1996, with 1998-99 data changes. He said in 1986, the State of Utah sued Kennecott Copper for damage to the state's natural resources which, in this case, is ground water resources. He said a settlement was agreed upon in 1995, in which Kennecott Copper paid the State of Utah \$9 million, and put aside a trust fund of \$28 million to restore and remediate this contamination, and provide drinking water as part of the restoration process. He said in 1995, the U.S. EPA began to evaluate the nature of the contamination. He said it was agreed that Kennecott would have the ability and right until the year 2000 to evaluate the situation, and to propose a remedy, which would make use of the trust fund money set aside to provide the restoration and treatment of water in this region. He said in July 2000, the trustee (Diane Nielson, Director of the Utah Department of Environmental Quality) will make the decision of whether or not to accept Kennecott's proposal or to go to a general use of the money and cash in the trust fund.

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Mr. Bay showed a map of the proposed groundwater extraction and treatment system (Attachment B). He said the treatment process is a reverse osmosis treatment that produces good drinking water. He reviewed the capital, operation, and maintenance, and replacement costs as outlined in Table 8.6 A (Attachment B). He summarized the proposed funding of the project as outlined in Table 9.0A (Attachment B). He summarized the annual groundwater extraction volumes in table 5.2A (Attachment B). He said they have selected zone A (3500 acre feet) as an allocation that would go directly to the benefit of the 4 communities effected, and would provide a reduced water price for a 50 year period. He reviewed the options for allocation of Zone A benefits, as shown in Tables 11.0A-G (Attachment B). He pointed out Tables 12.4A, which shows the operation, maintenance, replacement and ownership of facilities for the proposed project, and 12.1A, which shows the proposed project schedule. (Attachment B).

Mr. Callender said this proposal will provide better quality water, with higher water pressure, at a lower cost and will utilize existing infrastructure.

Mr. Bay said this proposal will be presented to the State of Utah and the EPA in early December, and they are seeking the City's endorsement.

Mayor McMullin asked what percent of the water supply will come from this source if they support this plan, and what happens to the rights that the City has in the Deer Creek water? Mr. Bay said the water from Deer Creek reservoir constitutes most of what the Jordan Valley Water Conservancy District currently provides to the City. He said this would be a new supply in addition to the Deer Creek water, and would not effect the current contract with the City, or the current water supply that Jordan Valley Water Conservancy District provides to the City. He said it will reduce the amount of water from other sources, such as the Bear River, in the future.

Mayor McMullin asked if after 50 years, would the water blend with the Deer Creek water? Mr. Bay said the water would blend, and the quality would be equivalent. He said the reduced price, as proposed, would be available for 50 years, it would revert back to the normal price. City Administrator Chandler said this would be about 15 percent of the City's total current water usage.

Councilman Warne said Table 11.0B shows that South Jordan has 50 percent of the effected area, but the allocation is only 30 percent. Mr. Bay said they used three criteria to come up with the allocation. Councilman Warne said South Jordan City has been negatively impacted for a long time, and the neighboring communities have the capability to drill wells, which South Jordan does not have. He said as a result, the neighboring communities have also had their water at a cheaper rate because South Jordan has to buy all of their water from the Jordan Valley Water Conservancy District. He feels that should be considered in the allocation. Mr. Bay said they would consider his request, and pointed out that they have had the same request from each of the other three communities for

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other reasons. The other three communities are West Jordan, Riverton, and Herriman.

Mayor McMullin asked if they would start construction of this project in 2003? He was told that was correct. He asked what size of line would be installed in 1300 West, and where would the line be located? Mr. Bay said the proposal is to put the pipe in the road right-of-way, and the pipeline is from 6-16 inch in diameter. Mayor McMullin said the City is looking at reconstructing 1300 West, and they need to coordinate with the Jordan Valley Water Conservancy District so the road is not torn up again. Mr. Bay said they would like to work with the City, and see if they can move the schedule up.

Mayor McMullin asked how big the wells are that have been identified in the plan? Mr. Bay said there are 8 wells, and each well has identified 2-4 possible sites. He said they could be as small as 80 feet by 100 feet, and it would be put on a ¼ lot, or larger. Mayor McMullin asked that they meet with Community Development Director Labrum to make sure the wells are not proposed under a project that is planned.

Mr. Callender said two of the sites are already in operation on the Kennecott property.

Mayor McMullin said the City is going to be designing 10400 South, from 2700 West to 3200 West, and they need to include those plans in conjunction with this project.

Mayor McMullin said he thinks this program is great, and he hopes the City will continue their good relationship with Kennecott, as the west side of the City is developed. He recognized the Chairman of the Board of the Jordan Valley Water Conservancy District, and Dale Gardner, South Jordan representative, and said Mr. Gardner has done more for the southwest portion of the valley than any other individual with regards to the water lawsuit over the last several years.

Councilman Warne concurred, and thanked Mr. Gardner for his work.

Councilman Warne asked if the net 1999 water rate (\$203.02) was a fixed cost, and how long would it be effective? Mr. Bay said it is a fixed formula that will be in place for 50 years.

Mayor McMullin asked if they can look at putting the pipe, or a portion of the pipe, in 1300 West, and have Kennecott or the Jordan Valley Water Conservancy District advance the money? Mr. Bay said they will take that request to the Board of Directors. Mr. Callender said they will work with the City.

Councilman Criner made a motion to support this proposal, and to relook at the 30 percent allocation for South Jordan. Councilwoman Liddiard seconded the motion.

Councilman Criner commended Kennecott for their hard work in remedying this

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situation.

The vote was unanimous in favor, with Councilman Christensen absent.

### III. \ CITIZEN REQUESTS

Kent Sorenson, Peterson Development, said on the south side of the Jones Farm subdivision, on 10200 South, he is required to install the landscaping in the parkstrip and the homeowners are to maintain the parkstrip. He said it does not make sense to install the landscaping now because the homes will not be completely finished for a year, and he would have to install separate water meters and electrical panels for each house, and then he would take them out when all of the houses are finished. He asked if the City Council would let him post another bond, or add this onto his existing bond, and allow him to delay installing the landscaping for a year?

Councilman Warne asked if he would still be installing the collector street fencing? Mr. Sorenson said the collector street fencing is already in.

Councilman Warne made a motion to allow Peterson Development to landscape the parkstrip on 10200 South in conjunction with the construction of houses in the Jones Farm subdivision, and to allow the developer to post a separate cash bond for improvements, and at the appropriate time, the rest of the bond be released, and that the improvements be done within 12 months. Councilman Criner seconded the motion. The vote was unanimous in favor, with Councilman Christensen absent.

#### IV. PUBLIC HEARINGS

A. Text Amendment To Section 12.54.160 Eliminating The Requirement For 8' Wide Landscape Planters Between Double Parking Rows In The Redwood Road MU Zones

Community Development Director Labrum said they found a duplication in the Ordinance regarding parking landscaping. He said the current Ordinance requires an 8 foot park strip between double parking rows, and landscaping on the perimeter of the parking lot. He said staff is recommending that they eliminate the 8 foot parkstip requirement, and only require planters on single parking rows every 10 stalls, and double rows every 6 stalls. He said it would still provide the desired shading. He said the Boyer Company is the main developer requesting this amendment. He said it will reduce the parking lot area dedicated to grass and shrubs.

Mayor McMullin opened the public hearing. There were no public comments. He closed the public hearing.

# **APPENDIX F**

**Water Management Proposal to State Engineer** 

Jonathan F. Callender, Ph.D. Kennecott Utah Copper Corporation HSEQ/Technical Services P.O. Box 112 Bingham Canyon, Utah 84006-0112

August 16, 1999

Robert L. Morgan, PE, State Engineer Utah Division of Water Rights 1594 West North Temple, STE 220 PO Box 146300 Salt: Lake City, UT 84114-6300

HAND DELIVERED

Re:

Proposal for restricted pumping in the southwestern Jordan Valley area

Dear Mr. Morgan:

Kennecott Utah Copper Corporation herein submits a request for the creation of a restricted pumping zone in certain parts of the former Management Area 8 of the interim Salt Lake Valley Ground Water Management Plan. The proposed restricted area overlies contaminated groundwater in the principal aquifer of the southwestern Jordan Valley, as documented in the enclosed Remedial Investigation and Feasibility Study done under CERCLA and State review (CD-ROM attached).

As part of its responsibilities under CERCLA and the Natural Resource Damage settlement with the State, Kennecott has completed source controls at its facilities to prevent further degradation of groundwater in the basin. Kennecott also has in place an extraction well for acidic water in the groundwater plume, two extraction wells at the leading edge of an elevated sulfate plume in the Bingham Creek area, and an extraction well at the leading edge of sulfate-contaminated water near Lark. Kennecott is currently conducting a joint study with the Jordan Valley Water Conservancy District of the feasibility of extracting and treating elevated sulfate groundwater and providing the treated water for municipal use.

Part of any effective remediation plan must include measures to protect groundwater users and prevent further migration of existing contamination. Although much of the affected aquifer is on Kennecott property (where Kennecott can control groundwater development), Kennecott is particularly concerned about future groundwater development along the outskirts of South Jordan and West Jordan cities, and in the Town of Herriman. Privately owned water rights exist in those areas, and the communities may require diversion of external water rights to the areas as part of development requirements. Unrestricted use of these water rights could draw elevated sulfate and TDS water into the currently clean aquifer, causing damage to the water users and exacerbating groundwater contamination.

Kennecott would like to propose a series of restrictions on future water well development in these areas. These restrictions would include:

- 1. Completion depth and pumping rate restrictions on wells drilled within 3000 feet south of the known 250-mg/L-sulfate isoconcentration line in the Herriman area, as shown on Figure 4-4 of the RI.
- Completion depth and pumping rate restrictions on wells drilled within 3000 feet north of the known 250-mg/L-sulfate isoconcentration line in the West Jordan area, as shown on the same figure.

3. Prohibition of new well development within the 250-mg/L-sulfate isoconcentration line in the former Kennecott evaporation pond area (South Jordan) until Kennecott installs its NRD remediation and water supply and treatment systems, achieves hydraulic containment of the upgradient groundwater plume, and the system reaches steady state and achieves a sulfate level in the area below 250 mg/L.

Appropriate completion depths and pumping rates would be determined on a case-by-case basis using the most up-to-date information on location and depth of contamination, aquifer properties, and user needs. Kennecott would supply this information to the State Engineer and any water user upon request. The restricted area will shrink as remediation and natural attenuation reduce the size of the contaminated zone.

Kennecott recognizes that these restrictions may adversely affect the water rights of private water users in these areas. Kennecott stands ready to assist affected property owners in obtaining an adequate water supply by identifying alternative water sources, providing technical assistance in siting and completing supply wells, and providing supplemental financing in cases where the presence of contamination causes an additional cost burden to the property owner.

Please review this proposal for aquifer and water-user protection in the southwestern Jordan Valley. Kennecott believes this strategy will prevent additional migration of existing contamination, protect current and potential groundwater users, and facilitate remediation of groundwater in the area. If you agree, Kennecott would like to participate with you in presenting this proposal to the public.

Please contact me at 569-7015 if you have any questions. We would like to meet with you and your staff to discuss this matter at a suitable time.

Sincerely,

Jonathan F. Callender, Ph.D Manager Strategic Resources

Cc: W. R. Williams, General Manager, KUCC M. Shoop, Associate General Counsel, KUCC Dallin Jensen, Parsons, Behle & Latimer

Enc. Figure 4-4, RI/FS